

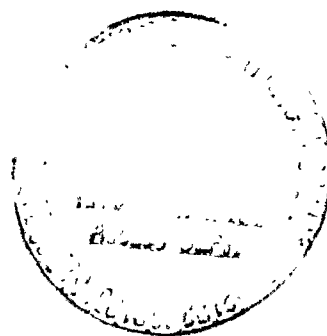
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NASA  
SP-7051  
(Suppl 3)

# NASA THESAURUS SUPPLEMENT

JANUARY 1985

A three part cumulative  
supplement to the 1982 edition  
of the *NASA Thesaurus*



**NASA**

National Aeronautics  
and Space Administration

Scientific and Technical  
Information Branch

1985

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# INTRODUCTION

The *NASA Thesaurus Supplement* replaces the former *6-Month Cumulative Listing of the NASA Thesaurus Changes*. This cumulative supplement to the *NASA Thesaurus* 1982 edition, incorporates all of the information normally contained in the previous publication as well as two new features: complete hierarchies and access vocabulary. It is hoped that the additional information and the improved legibility will make this a more useful product than its predecessor. Subsequent issues of the supplement will be cumulative and will be issued every six months. For detailed information on the use of the *NASA Thesaurus Supplement*, consult the front matter of the *NASA Thesaurus* 1982 edition.

Users are encouraged to consult the online NASA Thesaurus for the most complete and up-to-date information. Addenda to old hierarchies in the 1982 edition of the *NASA Thesaurus* are not given because they are readily found in the online NASA Thesaurus. Inclusion of such a feature would have substantially increased the size of the publication. In using the hierarchies in the online NASA Thesaurus, users are cautioned that these hierarchies list broad and narrow terms and not their interrelationships. The online NASA Thesaurus does not show the exact relationship when there are more than three broad and/or narrow terms.

New terms to this issue are indicated with a bullet and larger type. Designed for browsability, each new term appears in the format of the following example:

• **Earthnet**

Many times cross references are later made postable terms. These are shown in Part 3. When new cross references are added to older terms, the term that is referred to is not listed unless it is also a new term. For older terms check the printed or the online NASA Thesaurus.

Any comments or suggestions about this publication, including suggestions for new terms, should be directed to the Lexicographer, NASA Scientific and Technical Information Facility, P.O. Box 8757, BWI Airport, Maryland 21240.

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# NASA THESAURUS SUPPLEMENT

## PART 1 HIERARCHICAL LISTING

### A

#### A-310 AIRCRAFT

- GS COMMERCIAL AIRCRAFT
  - EUROPEAN AIRBUS
  - A-310 AIRCRAFT**
  - JET AIRCRAFT
  - EUROPEAN AIRBUS
  - A-310 AIRCRAFT**
  - PASSENGER AIRCRAFT
  - EUROPEAN AIRBUS
  - A-310 AIRCRAFT**
  - TRANSPORT AIRCRAFT
  - SHORT HAUL AIRCRAFT
  - EUROPEAN AIRBUS
  - A-310 AIRCRAFT**
- RT INTERNATIONAL COOPERATION
  - SWEPT WINGS

#### A-320 AIRCRAFT

- GS COMMERCIAL AIRCRAFT
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  - A-320 AIRCRAFT**
  - JET AIRCRAFT
  - EUROPEAN AIRBUS
  - A-320 AIRCRAFT**
  - PASSENGER AIRCRAFT
  - EUROPEAN AIRBUS
  - A-320 AIRCRAFT**
  - TRANSPORT AIRCRAFT
  - SHORT HAUL AIRCRAFT
  - EUROPEAN AIRBUS
  - A-320 AIRCRAFT**
- RT INTERNATIONAL COOPERATION
  - SWEPT WINGS

#### ACCOUNTING

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#### ACCRETION DISKS

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#### ACEE PROGRAM

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  - AEROMANEUVERING
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- TRANSFER ORBITS

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  - AEROCAPTURE
  - AEROMANEUVERING
  - ATMOSPHERIC ENTRY
  - INTERPLANETARY TRANSFER ORBITS
  - TRANSFER ORBITS

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  - MAGNETIC SURVEYS
  - MAGNETIC VARIATIONS
  - REMOTE SENSING

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  - AEROCAPTURE
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  - LARGE AREA CROP INVENTORY
    - EXPERIMENT

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  - AIR START**
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  - STIMULATED EMISSION DEVICES
  - LASERS
  - AIRBORNE LASERS**
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  - LASER RANGER/TRACKER
  - REMOTE SENSORS
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  - STONY METEORITES
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  - CARBONACEOUS CHONDRITES
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  - ANIK 3
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  - ARTIFICIAL SATELLITES
  - SYNCHRONOUS SATELLITES
  - ANIK SATELLITES**
  - ANIK 1
  - ANIK 2
  - ANIK 3
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  - ANIK SATELLITES**
  - ANIK 1
  - ANIK 2
  - ANIK 3
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  - MAMMALS
  - PRIMATES
  - APES**
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#### APL (PROGRAMMING LANGUAGE)

- GS LANGUAGES
  - PROGRAMMING LANGUAGES
  - APL (PROGRAMMING LANGUAGE)**
- RT COMPUTER PROGRAMMING

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  - ARABSAT**
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ARIES SOUNDING ROCKET

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ASTRONOMICAL OBSERVATORIES  
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HEAO 2  
HEAO 3

OAO  
OAO 1  
OAO 2  
OAO 3

OSO

AOSO  
OSO-1  
OSO-2  
OSO-3  
OSO-4  
OSO-5  
OSO-6  
OSO-7  
OSO-8

SPACE INFRARED TELESCOPE  
FACILITY

SPARTAN SATELLITES

SATELLITES

ARTIFICIAL SATELLITES

ASTRONOMICAL SATELLITES

HEAO 1  
HEAO 2  
HEAO 3

OAO  
OAO 1  
OAO 2  
OAO 3

OSO

AOSO  
OSO-1  
OSO-2  
OSO-3  
OSO-4  
OSO-5  
OSO-6  
OSO-7  
OSO-8

SPACE INFRARED TELESCOPE  
FACILITY

SPARTAN SATELLITES

EARTH SATELLITES

ASTRONOMICAL SATELLITES

HEAO 1  
HEAO 2  
HEAO 3

OAO  
OAO 1  
OAO 2  
OAO 3

OSO

AOSO  
OSO-1  
OSO-2  
OSO-3  
OSO-4  
OSO-5  
OSO-6  
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SIGNAL TRANSMISSION  
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AUTOMATED TRANSIT VEHICLES  
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VEHICLES

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WINTER

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NATIONS  
BAHAMAS

## NASA THESAURUS SUPPLEMENT (PART 1)

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RESONANCE  
BARYON RESONANCE  
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REMOTE SENSING  
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GS ELECTRONIC EQUIPMENT  
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WAVEGUIDES  
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- CIRCULATION DISTRIBUTION**  
RT ATMOSPHERIC CIRCULATION  
CIRCULATION  
∞ DISTRIBUTION  
VELOCITY DISTRIBUTION
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IMAGE ANALYSIS  
IMAGE PROCESSING  
PATTERN RECOGNITION  
REMOTE SENSING
- **COLUMBIA (ORBITER)**  
UF SPACE SHUTTLE ORBITER 102  
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SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM



## COMMAND LANGUAGES

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SPACE SHUTTLE ORBITERS

#### COLUMBIA (ORBITER)

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- REUSABLE SPACECRAFT
- SPACE SHUTTLE MISSION 31-A
- SPACE SHUTTLE MISSION 41-A
- SPACE SHUTTLE MISSION 51-G
- SPACE SHUTTLE MISSION 51-I
- ∞ SPACECRAFT

### COMMAND LANGUAGES

- GS LANGUAGES
- COMMAND LANGUAGES
- QUERY LANGUAGES
- RT INFORMATION RETRIEVAL

### COMMERCIAL SPACECRAFT

- GS COMMERCIAL SPACECRAFT
- RCA SATCOM SATELLITES
- RT AEROSPACE INDUSTRY
- AEROSPACE VEHICLES
- COMMERCE
- COMMUNICATION SATELLITES
- INDUSTRIES
- SPACE COMMERCIALIZATION
- SPACE INDUSTRIALIZATION
- SPACE MANUFACTURING
- SPACE PROCESSING

### COMMONALITY

- GS STANDARDIZATION
- COMMONALITY
- RT AIRCRAFT EQUIPMENT
- COST REDUCTION
- EFFICIENCY
- EQUIPMENT SPECIFICATIONS
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- SPACECRAFT COMPONENTS
- SPECIFICATIONS

### COMPULSATORS

- RT AC GENERATORS
- COMPENSATORS
- ELECTRIC POWER SUPPLIES
- PULSE GENERATORS

## • COMPUTATIONAL ASTROPHYSICS

- GS ASTROPHYSICS
- COMPUTATIONAL ASTROPHYSICS
- RT COMPUTATION
- COMPUTERIZED SIMULATION
- MATHEMATICAL MODELS

### COMPUTATIONAL CHEMISTRY

- GS ANALYSIS (MATHEMATICS)
- NUMERICAL ANALYSIS
- COMPUTATIONAL CHEMISTRY
- RT ∞ CHEMISTRY
- COMPUTER TECHNIQUES
- COMPUTERIZED SIMULATION
- PHYSICAL CHEMISTRY
- ∞ TESTS

### COMPUTATIONAL GRIDS

- UF GRIDS (MATHEMATICS)
- MESH (MATHEMATICS)
- RT COORDINATES
- MATHEMATICAL MODELS
- NUMERICAL ANALYSIS
- PROBLEM SOLVING

### COMPUTER AIDED DESIGN

- UF CAD (DESIGN)
- COMPUTERIZED DESIGN
- GS COMPUTER AIDED DESIGN
- IPAD
- RT AIRCRAFT DESIGN
- AMPLIFIER DESIGN
- COMPUTER GRAPHICS
- COMPUTER TECHNIQUES
- COMPUTERIZED SIMULATION
- ∞ DESIGN
- DRAFTING MACHINES
- ENGINE DESIGN
- HELICOPTER DESIGN
- LENS DESIGN
- LOFTING
- LOGIC DESIGN
- MISSILE DESIGN
- REACTOR DESIGN
- ROBOTICS
- SATELLITE DESIGN
- SPACECRAFT DESIGN

### COMPUTER AIDED DESIGN-(CONT.)

STRUCTURAL DESIGN

### COMPUTER AIDED MANUFACTURING

- UF CAM (MANUFACTURING)
- GS MANUFACTURING
- COMPUTER AIDED MANUFACTURING
- RT COMPUTER GRAPHICS
- COMPUTER TECHNIQUES
- COMPUTERIZED SIMULATION
- ROBOTICS

### COMPUTER AIDED MAPPING

- GS MAPPING
- COMPUTER AIDED MAPPING
- RT COMPUTER GRAPHICS
- COMPUTER TECHNIQUES
- COMPUTERIZED SIMULATION
- MAPS
- ROBOTICS

### COMPUTERIZED DESIGN

- USE COMPUTER AIDED DESIGN

### CONCURRENT PROCESSING

- GS DATA PROCESSING
- CONCURRENT PROCESSING
- RT ARCHITECTURE (COMPUTERS)
- COMPUTER SYSTEMS DESIGN
- MULTIPROCESSING (COMPUTERS)
- PARALLEL PROCESSING (COMPUTERS)

### CONDENSATION NUCLEI

- GS CONDENSATION NUCLEI
- AITKEN NUCLEI
- RT AEROSOLS
- CLOUD PHYSICS
- CLOUDS (METEOROLOGY)
- ∞ CONDENSATION
- CONDENSING
- DROPS (LIQUIDS)
- ICE NUCLEI
- METEOROLOGY
- MICROPARTICLES
- NUCLEATION
- ∞ NUCLEI
- RAIN

### CONDENSERS (LIQUEFIERS)

- UF CONDENSER RADIATORS
- GS CONDENSERS (LIQUEFIERS)
- JET CONDENSERS
- RT ABSORBERS (EQUIPMENT)
- AIR CONDITIONING
- AIR CONDITIONING EQUIPMENT
- COLD TRAPS
- COLUMNS (PROCESS ENGINEERING)
- COMPRESSORS
- CONDENSATES
- ∞ CONDENSERS
- CONDENSING
- COOLING FINS
- COOLING SYSTEMS
- DISTILLATION EQUIPMENT
- DRYING APPARATUS
- EVAPORATORS
- EXHAUST SYSTEMS
- FILM CONDENSATION
- HEAT EXCHANGERS
- HEAT PUMPS
- LIQUEFIED GASES
- REFRIGERATING MACHINERY
- SEPARATORS
- SPACECRAFT RADIATORS
- VAPORIZERS

### CONJUGATE GRADIENT METHOD

- GS ANALYSIS (MATHEMATICS)
- NUMERICAL ANALYSIS
- ITERATION
- CONJUGATE GRADIENT METHOD
- RT ALGORITHMS
- CONJUGATES
- GRADIENTS
- ITERATIVE SOLUTION

### CONTINENTAL MARGINS

- USE CONTINENTAL SHELVES

### CONTINUUM MODELING

- RT CONTINUUM MECHANICS
- CONTINUUMS
- LARGE SPACE STRUCTURES
- MATHEMATICAL MODELS

## NASA THESAURUS SUPPLEMENT (PART 1)

### CONTINUUM MODELING-(CONT.)

STRUCTURAL ANALYSIS

## • CONTROL SYSTEMS DESIGN

- GS SYSTEMS ENGINEERING
- CONTROL SYSTEMS DESIGN
- RT AEROSPACE SYSTEMS
- AUTOMATIC CONTROL
- ∞ AUTOMATION
- BIONICS
- BOND GRAPHS
- ∞ CONTROL
- CONTROL THEORY
- CONTROLLERS
- CYBERNETICS
- DESIGN ANALYSIS
- ELECTRIC CONTROL
- ELECTRONIC CONTROL
- FEEDBACK CONTROL
- MATHEMATICAL MODELS
- NUMERICAL CONTROL
- OPERATIONS RESEARCH
- OPTIMAL CONTROL
- PARAMETER IDENTIFICATION
- SYSTEM IDENTIFICATION
- SYSTEMS ANALYSIS
- SYSTEMS INTEGRATION

### COOLANT LOSS

- USE LOSS OF COOLANT

### COROTATION

- GS GYRATION
- ROTATION
- COROTATION
- RT ASTRONOMICAL MODELS
- GALACTIC ROTATION
- GALACTIC STRUCTURE
- MAGNETOSPHERE
- SPIRAL GALAXIES
- STELLAR MOTIONS
- STELLAR ROTATION

### COSMOS 954 SATELLITE

- GS SOVIET SPACECRAFT
- COSMOS SATELLITES
- COSMOS 954 SATELLITE
- RT UNCONTROLLED REENTRY
- (SPACECRAFT)

### COSPAS

- GS SATELLITES
- ARTIFICIAL SATELLITES
- COSPAS
- EARTH SATELLITES
- COSPAS
- RT RECONNAISSANCE
- RESCUE OPERATIONS
- SARSAT
- SEARCHING

### CRACK ARREST

- RT CRACK INITIATION
- CRACK PROPAGATION
- CRACK TIPS
- CRACKING (FRACTURING)

### CRACK TIPS

- GS CRACKS
- CRACK TIPS
- RT CRACK ARREST
- CRACK INITIATION
- CRACK PROPAGATION

### CRANK-NICHOLSON METHOD

- RT BOUNDARY VALUE PROBLEMS
- DIFFERENTIAL EQUATIONS
- FINITE DIFFERENCE THEORY
- FINITE ELEMENT METHOD
- NUMERICAL ANALYSIS

### CRANKED WINGS

- USE SWEEPED WINGS

### CRAY COMPUTERS

- GS SUPERCOMPUTERS
- CRAY COMPUTERS

## • CRIME

- RT POLICE
- SECURITY
- SOCIAL FACTORS
- VIOLENCE

**CYCLIC ADENOSINE MONOPHOSPHATE**

USE CYCLIC AMP

**CYCLIC AMP**

UF CYCLIC ADENOSINE MONOPHOSPHATE

GS HETEROCYCLIC COMPOUNDS

ADENOSINES

**CYCLIC AMP**

ORGANIC COMPOUNDS

CYCLIC COMPOUNDS

**CYCLIC AMP**

NUCLEOTIDES

ADENOSINES

**CYCLIC AMP**

PHOSPHORUS COMPOUNDS

PHOSPHATES

NUCLEOTIDES

ADENOSINES

**CYCLIC AMP**

PROTEINS

NUCLEOTIDES

ADENOSINES

**CYCLIC AMP**

RT ADRENERGICS

ALKYNES

AMINO ACIDS

CHOLINERGICS

GUANINES

PHARMACOLOGY

**CYLINDRICAL COORDINATES**

USE CARTESIAN COORDINATES

**D****DAHOMAY**

USE BENIN

**DAMA**

USE DEMAND ASSIGNMENT MULTIPLE ACCESS

**DAST PROGRAM**

UF DRONES FOR AERODYNAMIC AND STRUCT TEST

RT AEROELASTICITY

AIRCRAFT CONTROL

AIRCRAFT DESIGN

DRONE AIRCRAFT

FLIGHT TESTS

FLUTTER

REMOTELY PILOTED VEHICLES

VIBRATION DAMPING

**DATA FLOW ANALYSIS**

RT COMPUTER PROGRAMS

COMPUTER SYSTEMS PROGRAMS

FLOW CHARTS

NETWORK ANALYSIS

SEQUENTIAL CONTROL

**DATA INTEGRATION**

RT DATA MANAGEMENT

DATA SIMULATION

**DATA SIMULATION**

RT DATA INTEGRATION

DATA MANAGEMENT

**DATA STRUCTURES**

GS DATA PROCESSING

**DATA STRUCTURES**

RT COMPUTER PROGRAMMING

DATA BASES

**DEFENSE METEOROLOGICAL SATELLITE PROGRAM**

USE DMSP SATELLITES

**DEMAND ASSIGNMENT MULTIPLE ACCESS**

UF DAMA

GS TELECOMMUNICATION

MULTIPLE ACCESS

**DEMAND ASSIGNMENT MULTIPLE ACCESS**

RT CHANNEL CAPACITY

COMMUNICATION NETWORKS

COMMUNICATION SATELLITES

SATELLITE NETWORKS

**DESERTIFICATION**

RT

ARID LANDS

BARREN LAND

DEATH VALLEY (CA)

DESERTLINE

DESERTS

DROUGHT

EARTH ENVIRONMENT

GOBI DESERT

LAND

LAND USE

MAN ENVIRONMENT INTERACTIONS

MOJAVE DESERT (CA)

OASES

REMOTE SENSING

SAHARA DESERT (AFRICA)

STEPPES

WADIS

**DESYNCHRONIZATION (BIOLOGY)**

GS

BIOLOGICAL EFFECTS

**DESYNCHRONIZATION (BIOLOGY)**

DISORIENTATION

**DESYNCHRONIZATION (BIOLOGY)**

PSYCHOLOGICAL EFFECTS

**DESYNCHRONIZATION (BIOLOGY)**

RT

JET LAG

PHYSIOLOGICAL RESPONSES

RHYTHM (BIOLOGY)

**DIDYMIUM**

RT

LANTHANUM

NEODYMIUM

OPTICAL FILTERS

PRASEODYMIUM

**DIFFERENTIAL ANALYZERS**

RT

ALGORITHMS

ANALOG COMPUTERS

COMPUTERIZED SIMULATION

DIFFERENTIAL EQUATIONS

DIGITAL COMPUTERS

DIGITAL INTEGRATORS

**• DIFFERENTIAL THERMAL ANALYSIS**

USE

THERMAL ANALYSIS

**DIKES (GEOLOGY)**

USE

ROCK INTRUSIONS

**DINING PHILOSOPHERS PROBLEM**

RT

DISTRIBUTED PROCESSING

INTERPROCESSOR COMMUNICATION

PROBLEM SOLVING

SYNCHRONISM

**DIRECTION FINDING**

RT

BEARING (DIRECTION)

RADIO DIRECTION FINDERS

SIGNAL PROCESSING

**DIRECTIONAL COUPLERS**

RT

ANTENNA COMPONENTS

COUPLERS

COUPLING

COUPLINGS

IMPEDANCE MATCHING

MICROSTRIP TRANSMISSION LINES

MICROWAVE COUPLING

TRANSMISSION LINES

YOKES

**DIRECTORIES**

RT

HANDBOOKS

MANUALS

**• DISCOVERY (ORBITER)**

UF

SPACE SHUTTLE ORBITER 103

GS

TRANSPORTATION

SPACE TRANSPORTATION

SPACE TRANSPORTATION SYSTEM

SPACE SHUTTLE ORBITERS

**DISCOVERY (ORBITER)**

RT

MANNED SPACE FLIGHT

RECOVERABLE SPACECRAFT

REUSABLE SPACECRAFT

SPACE SHUTTLE MISSION 41-D

SPACE SHUTTLE MISSION 51-A

SPACE SHUTTLE MISSION 51-B

SPACE SHUTTLE MISSION 51-D

∞ SPACECRAFT

**DISTRIBUTED PROCESSING**

GS

DATA PROCESSING

**DISTRIBUTED PROCESSING-(CONT.)**RT **DISTRIBUTED PROCESSING**

ARCHITECTURE (COMPUTERS)

COMPUTER NETWORKS

COMPUTER SYSTEMS DESIGN

DINING PHILOSOPHERS PROBLEM

MICROPROCESSORS

**DMSP SATELLITES**

UF

DEFENSE METEOROLOGICAL SATELLITE

PROGRAM

GS

MILITARY SPACECRAFT

**DMSP SATELLITES**

PROGRAMS

DEFENSE PROGRAM

**DMSP SATELLITES**

RT

AIR DEFENSE

EARTH SATELLITES

METEOROLOGY

PHOTOMAPPING

PHOTORECONNAISSANCE

REMOTE SENSING

SATELLITE-BORNE PHOTOGRAPHY

**DOUBLE STARS**

USE

BINARY STARS

**∞ DRAG COEFFICIENTS**

SN

*(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*

RT

AERODYNAMIC COEFFICIENTS

AERODYNAMIC DRAG

DRAG

HYDRODYNAMIC COEFFICIENTS

**DREDGING**

RT

ARTIFICIAL HARBORS

HARBORS

MINERAL DEPOSITS

MINING

UNDERWATER RESOURCES

**DRONES FOR AERODYNAMIC AND STRUCT TEST**

USE

DAST PROGRAM

**DWARF GALAXIES**

GS

CELESTIAL BODIES

GALAXIES

**DWARF GALAXIES**

RT

LOCAL GROUP (ASTRONOMY)

**• DYNAMICAL SYSTEMS**

RT

CONTROL THEORY

MATHEMATICAL MODELS

NONLINEAR SYSTEMS

SYSTEMS SIMULATION

**E****EARTHNET**

RT

EARTH OBSERVATIONS (FROM SPACE)

EARTH RESOURCES

ESA SATELLITES

EUROPEAN SPACE PROGRAMS

LANDSAT SATELLITES

REMOTE SENSORS

SYNTHETIC APERTURE RADAR

**EASTERN HEMISPHERE**

RT

EARTH (PLANET)

GEOGRAPHY

WESTERN HEMISPHERE

**EINSTEIN OBSERVATORY**

USE

HEAO 2

**• EL NINO**

GS

CIRCULATION

. WATER CIRCULATION

. WATER CURRENTS

OCEAN CURRENTS

**EL NINO**

RT

AIR WATER INTERACTIONS

OCEAN TEMPERATURE

PACIFIC OCEAN

PERIODIC VARIATIONS

TROPICAL METEOROLOGY

## ELECTRIC AIRCRAFT

**ELECTRIC AIRCRAFT**  
USE FLY BY WIRE CONTROL

**ELECTRIC FURNACES**  
GS HEATING EQUIPMENT  
FURNACES  
**ELECTRIC FURNACES**  
RT ∞ MATERIALS  
SPACE PROCESSING

**ELECTROCHROMISM**  
RT COLOR  
DISPLAY DEVICES  
ELECTRO-OPTICS  
ELECTROCHEMISTRY  
THIN FILMS

• **ELECTROCONDUCTIVITY**  
USE ELECTRICAL RESISTIVITY

**ELECTRODE MATERIALS**  
RT ANIONS  
ANODES  
ANODIC COATINGS  
CATHODES  
CATHODIC COATINGS  
CELL ANODES  
CELL CATHODES  
ELECTRODES  
PHOTOCATHODES  
PHOTOELECTRIC CELLS  
PHOTOELECTRIC MATERIALS  
PHOTOELECTROCHEMICAL DEVICES  
TUBE ANODES

• **ELECTRONIC MAIL**  
GS TELECOMMUNICATION  
**ELECTRONIC MAIL**  
RT COMMUNICATION NETWORKS  
COMMUNICATION SATELLITES  
COMPUTER NETWORKS  
DATA TRANSMISSION

**EMBEDDED COMPUTER SYSTEMS**  
GS DATA PROCESSING EQUIPMENT  
COMPUTERS  
**EMBEDDED COMPUTER SYSTEMS**  
AIRBORNE/SPACEBORNE  
COMPUTERS  
RT ADA (PROGRAMMING LANGUAGE)

**EMPENNAGE**  
USE TAIL ASSEMBLIES

**ENCKE COMET**  
GS CELESTIAL BODIES  
COMETS  
ENCKE COMET

**ENERGY EFFICIENCY TRANSPORT PROGRAM**  
USE ACEE PROGRAM

• **ENSTROPHY**  
USE VORTICITY

• **ENTERPRISE (ORBITER)**  
UF SPACE SHUTTLE ORBITER 101  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE ORBITERS  
**ENTERPRISE (ORBITER)**  
RT MANNED SPACE FLIGHT  
RECOVERABLE SPACECRAFT  
REUSABLE SPACECRAFT  
∞ SPACECRAFT

**EURECA (ESA)**  
UF EUROPEAN RETRIEVABLE CARRIER  
GS SPACE PLATFORMS  
**EURECA (ESA)**  
RT SPACE SHUTTLES

**EUROPEAN LARGE TELECOMM SATELLITE**  
USE L-SAT

**EUROPEAN RETRIEVABLE CARRIER**  
USE EURECA (ESA)

**EXERCISE**  
USE PHYSICAL EXERCISE

**EXPERIMENT DESIGN**  
SN (DESIGN OF EXPERIMENTS EXCLUDES  
PROTOTYPES)  
UF DESIGN OF EXPERIMENTS  
GS **EXPERIMENT DESIGN**  
FACTORIAL DESIGN  
RT COVARIANCE  
DEGREES OF FREEDOM  
∞ DESIGN  
FACTOR ANALYSIS  
LABORATORIES  
MATHEMATICAL MODELS  
OPERATIONS RESEARCH  
ORTHOGONALITY  
QUALITY CONTROL  
REGRESSION ANALYSIS  
STATISTICAL ANALYSIS  
SYSTEMS ENGINEERING  
VARIANCE (STATISTICS)

**EXPERT SYSTEMS**  
UF KNOWLEDGE ENGINEERING  
GS INTELLIGENCE  
ARTIFICIAL INTELLIGENCE  
**EXPERT SYSTEMS**  
RT COMPUTER PROGRAMMING  
∞ LOGIC  
LOGIC PROGRAMMING

• **EXPLORER 42 SATELLITE**  
USE UHURU SATELLITE

**EXPLORER 44 SATELLITE**  
UF SOLRAD 10 SATELLITE  
GS SATELLITES  
ARTIFICIAL SATELLITES  
EXPLORER SATELLITES  
**EXPLORER 44 SATELLITE**

**EXPLORER 46 SATELLITE**  
UF METEOROID TECHNOLOGY SATELLITE  
GS SATELLITES  
ARTIFICIAL SATELLITES  
EXPLORER SATELLITES  
**EXPLORER 46 SATELLITE**

## F

**FAR UV SPECTROSCOPIC EXPLORER**  
GS SATELLITES  
ARTIFICIAL SATELLITES  
EXPLORER SATELLITES  
**FAR UV SPECTROSCOPIC  
EXPLORER**  
EARTH SATELLITES  
EXPLORER SATELLITES  
**FAR UV SPECTROSCOPIC  
EXPLORER**

**FASTING**  
RT AEROSPACE MEDICINE  
DIETS  
FOOD INTAKE  
HYPOXIA

**FAUNA**  
USE ANIMALS

**FEATURE EXTRACTION**  
USE PATTERN RECOGNITION

**FEATURE IDENTIFICATION AND LOCATION**  
**EXPER**  
RT EARTH OBSERVATIONS (FROM SPACE)  
IMAGE PROCESSING  
PATTERN RECOGNITION  
REMOTE SENSING  
REMOTE SENSORS  
SCENE ANALYSIS  
SPACE SHUTTLE PAYLOADS

**FIRE RETARDANTS**  
USE FLAME RETARDANTS

**FIRMWARE**  
RT COMPUTER PROGRAMMING  
HARDWARE  
MICROPROCESSORS  
MICROPROGRAMMING

## NASA THESAURUS SUPPLEMENT (PART 1)

**FISCHER-TROPSCH PROCESS**  
RT CATALYSIS  
CATALYTIC ACTIVITY  
REACTION KINETICS  
SYNTHESIS (CHEMISTRY)  
SYNTHETIC FUELS

**FLAPERONS**  
GS AIRFOILS  
AILERONS  
**FLAPERONS**  
FLAPS (CONTROL SURFACES)  
**FLAPERONS**  
CONTROL SURFACES  
AILERONS  
**FLAPERONS**  
FLAPS (CONTROL SURFACES)  
**FLAPERONS**  
RT AERODYNAMIC BRAKES

**FLAVOR (PARTICLE PHYSICS)**  
GS THEORETICAL PHYSICS  
**FLAVOR (PARTICLE PHYSICS)**  
RT HADRONS  
PARTICLE INTERACTIONS  
PARTICLE THEORY  
QUANTUM THEORY  
QUARKS

**FLIGHT MANAGEMENT SYSTEMS**  
GS MANAGEMENT SYSTEMS  
**FLIGHT MANAGEMENT SYSTEMS**  
RT AIR NAVIGATION  
AIR TRAFFIC CONTROL  
AIRBORNE/SPACEBORNE COMPUTERS  
AUTOMATIC FLIGHT CONTROL  
AUTOMATIC LANDING CONTROL  
AVIONICS  
COMPUTER TECHNIQUES  
FLIGHT CONTROL  
GROUND BASED CONTROL  
NAVIGATION AIDS  
ONBOARD DATA PROCESSING  
SYSTEMS ENGINEERING

**FLOAT ZONES**  
RT CRYSTAL GROWTH  
MELTS (CRYSTAL GROWTH)  
SILICON  
SOLAR CELLS  
SPACE PROCESSING  
ZONE MELTING

**FLUID MANAGEMENT**  
RT CRYOGENIC FLUID STORAGE  
CRYOGENIC FLUIDS  
CRYOGENIC ROCKET PROPELLANTS  
FLUID DYNAMICS  
FUEL CONTROL  
REDUCED GRAVITY

**FLUID-SOLID INTERACTIONS**  
RT GAS-SOLID INTERFACES  
LIQUID-SOLID INTERFACES  
SURFACE REACTIONS

• **FLUOROPLASTICS**  
USE FLUOROPOLYMERS

**FORMYL IONS**  
GS IONS  
**FORMYL IONS**  
RADICALS  
**FORMYL IONS**  
RT ATMOSPHERIC CHEMISTRY  
FORMATES  
FORMIC ACID  
HYDROXYL RADICALS  
INTERSTELLAR CHEMISTRY  
INTERSTELLAR MATTER  
MOLECULAR IONS  
NEGATIVE IONS  
POSITIVE IONS

**FRACTALS**  
GS DIMENSIONS  
**FRACTALS**  
RT ∞ APPLICATIONS OF MATHEMATICS  
COORDINATES  
EXPONENTS  
HALF SPACES  
∞ MATHEMATICS  
RATIOS  
SET THEORY

**FRACTALS-(CONT.)**

∞ SPACE  
STRANGE ATTRACTORS

**FRAMES (DATA PROCESSING)**

RT DATA MANAGEMENT  
DATA PROCESSING  
FORMAT  
IMAGE PROCESSING

**G****GALACTIC COSMIC RAYS**

GS IONIZING RADIATION  
COSMIC RAYS  
GALACTIC COSMIC RAYS  
RT ENERGETIC PARTICLES  
GALACTIC RADIATION  
SOLAR ACTIVITY EFFECTS  
SOLAR WIND

**• GAS DIFFUSION**

USE GASEOUS DIFFUSION

**GAS PATH ANALYSIS**

RT GAS DYNAMICS  
GAS FLOW

**GEL PERMEATION CHROMATOGRAPHY**

USE LIQUID CHROMATOGRAPHY

**GEODETTIC ACCURACY**

RT EARTH SURFACE  
GEODESY  
GEOIDS  
GEOPOTENTIAL HEIGHT  
SATELLITE DOPPLER POSITIONING

**GEOGRAPHIC INFORMATION SYSTEMS**

GS INFORMATION SYSTEMS  
GEOGRAPHIC INFORMATION SYSTEMS  
RT AERIAL PHOTOGRAPHY  
DATA SYSTEMS  
GEOGRAPHY  
IMAGERY  
INFRARED PHOTOGRAPHY  
REMOTE SENSING

**GEOMETRIC ACCURACY**

RT DISTORTION  
GEOMETRIC RECTIFICATION (IMAGERY)  
IMAGE PROCESSING  
IMAGE RESOLUTION

**GEOHERMAL ANOMALIES**

GS ANOMALIES  
GEOHERMAL ANOMALIES  
RT GEOTEMPERATURE  
GEOHERMAL RESOURCES  
SURFACE TEMPERATURE  
THERMAL MAPPING

**GIOTTO MISSION**

GS ESA SPACECRAFT  
GIOTTO MISSION  
FLYBY MISSIONS  
GIOTTO MISSION  
UNMANNED SPACECRAFT  
SPACE PROBES  
GIOTTO MISSION  
RT HALLEY'S COMET

**GOERTLER INSTABILITY**

UF TAYLOR-GOERTLER INSTABILITY  
GS STABILITY  
GOERTLER INSTABILITY  
RT BOUNDARY LAYER STABILITY  
BOUNDARY LAYER TRANSITION  
CENTRIFUGAL FORCE  
FLOW STABILITY  
LAMINAR BOUNDARY LAYER  
ROTATING FLUIDS  
ROTATING LIQUIDS  
TAYLOR INSTABILITY  
VORTICES  
WALL FLOW

**• GRAIN SIZE**

RT GRAIN BOUNDARIES  
METAL FATIGUE

**GRAIN SIZE-(CONT.)**

MICROSTRUCTURE  
PARTICLE SIZE DISTRIBUTION

**GRAVITATIONAL PHYSIOLOGY**

GS PHYSIOLOGY  
GRAVITATIONAL PHYSIOLOGY  
RT ACCELERATION STRESSES  
(PHYSIOLOGY)  
AEROSPACE MEDICINE  
CENTRIFUGING STRESS  
GRAVITATIONAL EFFECTS  
PHYSIOLOGICAL ACCELERATION  
PHYSIOLOGICAL EFFECTS  
PHYSIOLOGICAL RESPONSES  
SPACE FLIGHT STRESS  
STRESS (PHYSIOLOGY)

**GRAVITINOS**

GS PARTICLES  
ELEMENTARY PARTICLES  
GRAVITINOS  
NEUTRAL PARTICLES  
GRAVITINOS  
RT BARYONS  
COSMOLOGY  
DECOUPLING  
GRAVITONS  
NEUTRINOS  
PARTICLE MASS  
WEAK ENERGY INTERACTIONS

**GRAVITY PROBE B**

RT GRAVITATIONAL EFFECTS  
GYROSCOPES  
NASA PROGRAMS  
RELATIVITY

**GRAY SCALE**

RT AERIAL PHOTOGRAPHY  
IMAGE CONTRAST  
IMAGE ENHANCEMENT  
IMAGE PROCESSING  
IMAGING TECHNIQUES  
OPTICAL DATA PROCESSING  
PATTERN RECOGNITION

**• GRAZING FLOW**

RT ACOUSTIC ATTENUATION  
ACOUSTIC DUCTS  
ACOUSTIC IMPEDANCE  
ACOUSTIC MEASUREMENT  
ACOUSTIC PROPERTIES  
AEROACOUSTICS  
∞ FLOW  
NOISE REDUCTION  
ORIFICE FLOW  
RESONATORS

**GREEN'S FUNCTIONS**

UF GREEN THEOREM  
GS ANALYSIS (MATHEMATICS)  
REAL VARIABLES  
GREEN'S FUNCTIONS  
FUNCTIONS (MATHEMATICS)  
GREEN'S FUNCTIONS  
RT DIFFERENTIAL EQUATIONS  
FIELD THEORY (ALGEBRA)  
FIELD THEORY (PHYSICS)  
HALF PLANES  
HALF SPACES  
JACOBI INTEGRAL  
MANY BODY PROBLEM

**GRIDS (MATHEMATICS)**

USE COMPUTATIONAL GRIDS

**• GROUND RESONANCE**

RT AERODYNAMIC STABILITY  
GROUND EFFECT  
HELICOPTERS  
ROTARY WINGS  
ROTOR AERODYNAMICS

**GYRES**

RT AIR WATER INTERACTIONS  
COASTAL CURRENTS  
OCEAN CURRENTS  
OCEANOGRAPHY

**H****HAZARDOUS MATERIAL DISPOSAL (IN SPACE)**

GS DISPOSAL  
WASTE DISPOSAL  
HAZARDOUS MATERIAL DISPOSAL  
(IN SPACE)  
RT AEROSPACE ENVIRONMENTS  
PUBLIC HEALTH  
RADIOACTIVE WASTES  
TOXICITY AND SAFETY HAZARD

**• HEAT TAPES**

RT HEAT STORAGE  
ICE PREVENTION  
∞ TAPES

**• HELIOSEISMOLOGY**

UF SOLAR DYNAMICS  
SOLAR SEISMOLOGY  
GS SEISMOLOGY  
HELIOSEISMOLOGY  
RT ASTROPHYSICS  
SOLAR PHYSICS

**HIGH REYNOLDS NUMBER**

SN (RN ABOVE 3,000)  
RT LOW REYNOLDS NUMBER  
REYNOLDS NUMBER

**HIGH SPEED PHOTOGRAPHY**

GS PHOTOGRAPHY  
HIGH SPEED PHOTOGRAPHY  
RT HIGH SPEED CAMERAS  
PHOTOGRAPHIC RECORDING

**HIGHLY MANEUVERABLE AIRCRAFT**

UF HIMAT  
RT AIRBORNE/SPACEBORNE COMPUTERS  
∞ AIRCRAFT  
AIRCRAFT MANEUVERS  
AUTOMATIC FLIGHT CONTROL  
AUTOMATIC PILOTS  
COMPUTERIZED SIMULATION  
FIGHTER AIRCRAFT  
FLIGHT CHARACTERISTICS  
FLIGHT TESTS  
REMOTELY PILOTED VEHICLES

**HIMAT**

USE HIGHLY MANEUVERABLE AIRCRAFT

**HIPPARCOS SATELLITE**

GS SATELLITES  
ARTIFICIAL SATELLITES  
ESA SATELLITES  
HIPPARCOS SATELLITE  
EARTH SATELLITES  
ESA SATELLITES  
HIPPARCOS SATELLITE  
RT ASTROMETRY  
EUROPEAN SPACE PROGRAMS  
SPACEBORNE ASTRONOMY  
STELLAR MOTIONS  
STELLAR PARALLAX

**HOLE BURNING**

RT COMPUTER STORAGE DEVICES  
HOLOGRAPHY  
LASER APPLICATIONS  
LASERS  
LASING  
MEMORY (COMPUTERS)

**HR DIAGRAM**

USE HERTZSPRUNG-RUSSELL DIAGRAM

**HUBBLE SPACE TELESCOPE**

UF LARGE SPACE TELESCOPE  
LST  
SPACE TELESCOPE  
GS TELESCOPES  
SPACEBORNE TELESCOPES  
HUBBLE SPACE TELESCOPE  
RT FAINT OBJECT CAMERA  
SPACE SHUTTLES  
SPACE STATIONS  
SPACEBORNE ASTRONOMY

**HUMAN RELATIONS**

UF INTERPERSONAL RELATIONS  
RT EMPLOYEE RELATIONS  
PERSONNEL MANAGEMENT

# HUMAN RELATIONS-(CONT.) SOCIOLOGY

## IGFET

USE FIELD EFFECT TRANSISTORS

## IMAGE ANALYSIS

RT CLUSTER ANALYSIS  
 IMAGE ENHANCEMENT  
 IMAGE PROCESSING  
 IMAGE RESOLUTION  
 PATTERN RECOGNITION  
 RADAR IMAGERY  
 REMOTE SENSING  
 SATELLITE IMAGERY  
 SCENE ANALYSIS

## IMAGING RADAR

GS RADAR  
 IMAGING RADAR  
 RT RADAR IMAGERY  
 REMOTE SENSORS  
 SIDE-LOOKING RADAR  
 SYNTHETIC APERTURE RADAR

## INDOOR AIR POLLUTION

GS POLLUTION  
 ENVIRONMENT POLLUTION  
 AIR POLLUTION  
 INDOOR AIR POLLUTION  
 RT AIR QUALITY  
 AIR SAMPLING  
 BUILDINGS

## INFORMATION TRANSFER

RT INFORMATION DISSEMINATION  
 INFORMATION FLOW  
 INFORMATION MANAGEMENT  
 INFORMATION RETRIEVAL  
 INFORMATION SYSTEMS  
 INTERNATIONAL COOPERATION  
 TECHNOLOGY TRANSFER  
 TECHNOLOGY UTILIZATION

## INFRARED SIGNATURES

GS SIGNATURES  
 INFRARED SIGNATURES  
 RT INFRARED DETECTORS  
 INFRARED RADIATION  
 INFRARED SPECTRA  
 SIGNATURE ANALYSIS

## INSAT SATELLITES

USE INDIAN SPACECRAFT

## INTEGRAL ROCKET RAMJETS

GS ENGINES  
 AIR BREATHING ENGINES  
 GAS TURBINE ENGINES  
 JET ENGINES  
 RAMJET ENGINES  
 INTEGRAL ROCKET RAMJETS  
 INTERNAL COMBUSTION ENGINES  
 GAS TURBINE ENGINES  
 JET ENGINES  
 RAMJET ENGINES  
 INTEGRAL ROCKET RAMJETS  
 RT SOLID PROPELLANT ROCKET ENGINES  
 TURBINE ENGINES

## INTEGRALS

RT DIFFERENTIAL EQUATIONS  
 FUNCTIONALS  
 INTEGRAL CALCULUS  
 MATHEMATICS

## INTEGRATED LIBRARY SYSTEMS

GS INFORMATION SYSTEMS  
 INTEGRATED LIBRARY SYSTEMS  
 RT INFORMATION DISSEMINATION  
 INFORMATION MANAGEMENT  
 INFORMATION RETRIEVAL  
 LIBRARIES  
 ON-LINE SYSTEMS

## INTERACTIONAL AERODYNAMICS

GS FLUID MECHANICS  
 FLUID DYNAMICS  
 GAS DYNAMICS

## INTERACTIONAL AERODYNAMICS-(CONT.)

## INTERACTIONAL AERODYNAMICS

RT AIRFOILS  
 COMPUTATIONAL FLUID DYNAMICS  
 FLOW  
 LAMINAR BOUNDARY LAYER

## INTERDIGITAL TRANSDUCERS

GS TRANSDUCERS  
 INTERDIGITAL TRANSDUCERS  
 RT DIGITAL TRANSDUCERS  
 ELECTROACOUSTIC TRANSDUCERS  
 PIEZOELECTRIC TRANSDUCERS  
 SURFACE ACOUSTIC WAVE DEVICES

## INTERNATIONAL

## GEOSPHERE-BIOSPHERE PROGRAM

GS PROGRAMS  
 INTERNATIONAL  
 GEOSPHERE-BIOSPHERE PROGRAM  
 RT BIOGEOCHEMISTRY  
 BIOSPHERE  
 EARTH OBSERVATIONS (FROM SPACE)  
 GEOPHYSICS  
 MAN ENVIRONMENT INTERACTIONS  
 SOLAR TERRESTRIAL INTERACTIONS

## INTERNATIONAL SOLAR POLAR MISSION

USE ULYSSES MISSION

## INTERPERSONAL RELATIONS

USE HUMAN RELATIONS

## ION SPECTROMETERS

USE MASS SPECTROMETERS

## IONOPAUSE

SN (EXCLUDES PLASMAPAUSE)  
 RT COMETARY ATMOSPHERES  
 PLANETARY ATMOSPHERES  
 PLASMAPAUSE  
 SPACE PLASMAS  
 VENUS ATMOSPHERE

## IRAS-ARAKI-ALCOCK COMET

GS CELESTIAL BODIES  
 COMETS  
 IRAS-ARAKI-ALCOCK COMET  
 RT INFRARED ASTRONOMY SATELLITE  
 SOLAR SYSTEM

## IRS (INDIAN SPACECRAFT)

USE INDIAN SPACECRAFT

## J

## JAPANESE SPACECRAFT

UF MOS (JAPANESE SPACECRAFT)  
 RT JAPAN  
 SPACECRAFT

## JUPITER SATELLITES

GS CELESTIAL BODIES  
 NATURAL SATELLITES  
 JUPITER SATELLITES  
 GALILEAN SATELLITES  
 CALLISTO  
 EUROPA  
 GANYMEDE  
 IO  
 SATELLITES  
 NATURAL SATELLITES  
 JUPITER SATELLITES  
 AMALTHEA  
 GALILEAN SATELLITES  
 CALLISTO  
 EUROPA  
 GANYMEDE  
 IO  
 RT JUPITER (PLANET)  
 JUPITER RINGS  
 SOLAR SYSTEM

## K

## K-MESONS

USE KAONS

## KAMPUCHEA

UF CAMBODIA  
 GS NATIONS  
 KAMPUCHEA  
 RT ASIA

## KNOWLEDGE ENGINEERING

USE EXPERT SYSTEMS

## L

## L-SAT

UF EUROPEAN LARGE TELECOMM  
 SATELLITE  
 GS ESA SPACECRAFT  
 ESA SATELLITES  
 L-SAT  
 SATELLITES  
 ARTIFICIAL SATELLITES  
 COMMUNICATION SATELLITES  
 L-SAT  
 ESA SATELLITES  
 L-SAT  
 EARTH SATELLITES  
 COMMUNICATION SATELLITES  
 L-SAT  
 ESA SATELLITES  
 L-SAT  
 RT SATELLITE NETWORKS

## LANDSAT 4

UF EARTH RESOURCES TECHNOLOGY  
 SATELLITE D  
 ERTS-D  
 GS SATELLITES  
 ARTIFICIAL SATELLITES  
 LANDSAT SATELLITES  
 LANDSAT 4  
 EARTH SATELLITES  
 LANDSAT SATELLITES  
 LANDSAT 4

## LANDSAT 5

GS SATELLITES  
 ARTIFICIAL SATELLITES  
 LANDSAT SATELLITES  
 LANDSAT 5  
 EARTH SATELLITES  
 LANDSAT SATELLITES  
 LANDSAT 5

## LARGE SPACE TELESCOPE

USE HUBBLE SPACE TELESCOPE

## LENNARD-JONES POTENTIAL

RT COMPUTERIZED SIMULATION  
 INTERMOLECULAR FORCES  
 LENNARD-JONES GAS  
 MOLECULAR INTERACTIONS  
 POTENTIAL THEORY

## LES (SATELLITES)

USE LINCOLN EXPERIMENTAL SATELLITES

## LEVITATION MELTING

GS PHASE TRANSFORMATIONS  
 MELTING  
 LEVITATION MELTING  
 RT ELECTRIC CURRENT  
 EXTERNAL SURFACE CURRENTS  
 LEVITATION  
 LIQUID METALS  
 LOW GRAVITY MANUFACTURING  
 MAGNETIC SUSPENSION  
 METALLURGY  
 OHMIC DISSIPATION  
 RESISTANCE HEATING  
 SPACE MANUFACTURING  
 SPACE PROCESSING

## LIGHT VALVES

RT ELECTRO-OPTICS  
 LIGHT MODULATION  
 LIQUID CRYSTALS  
 OPTICAL DATA PROCESSING

**LIQUID PLUS SOLID ZONES**  
USE MUSHY ZONES

**LOCAL GROUP (ASTRONOMY)**  
GS CELESTIAL BODIES  
GALAXIES  
GALACTIC CLUSTERS  
**LOCAL GROUP (ASTRONOMY)**  
ANDROMEDA GALAXIES  
RT BARRED GALAXIES  
COSMOLOGY  
DISK GALAXIES  
DWARF GALAXIES  
ELLIPTICAL GALAXIES  
SPIRAL GALAXIES  
VIRGO GALACTIC CLUSTER

**LOGIC PROGRAMMING**  
GS SOFTWARE ENGINEERING  
COMPUTER PROGRAMMING  
**LOGIC PROGRAMMING**  
RT ARTIFICIAL INTELLIGENCE  
EXPERT SYSTEMS  
LOGIC DESIGN

**LOSS OF COOLANT**  
UF COOLANT LOSS  
GS ACCIDENTS  
**LOSS OF COOLANT**  
RT COOLANTS  
LEAKAGE  
LOSSES  
NUCLEAR REACTORS  
REACTOR MATERIALS

**LOW INTENSITY X RAY IMAGING SCOPE**  
USE LIXISCOPIES

**LOW REYNOLDS NUMBER**  
SN (RN BELOW 2,000)  
RT HIGH REYNOLDS NUMBER  
REYNOLDS NUMBER

**LUNAR ATMOSPHERE**  
UF LUNAR IONOSPHERE  
GS ENVIRONMENTS  
EXTRATERRESTRIAL ENVIRONMENTS  
LUNAR ENVIRONMENT  
**LUNAR ATMOSPHERE**  
SATELLITE ATMOSPHERES  
**LUNAR ATMOSPHERE**  
RT MOON  
PLANETARY ATMOSPHERES

• **LYRA CONSTELLATION**  
GS CONSTELLATIONS  
**LYRA CONSTELLATION**  
RT CELESTIAL BODIES  
CELESTIAL SPHERE  
STARS

## M

**MADAGASCAR**  
USE MALAGASY REPUBLIC

**MAGELLAN MISSION**  
GS SATELLITES  
ARTIFICIAL SATELLITES  
ESA SATELLITES  
**MAGELLAN MISSION**  
EARTH SATELLITES  
ESA SATELLITES  
**MAGELLAN MISSION**  
RT EXTREME ULTRAVIOLET RADIATION  
FAR ULTRAVIOLET RADIATION  
SPACEBORNE ASTRONOMY

**MAGNETIC BEARINGS**  
GS BEARINGS  
**MAGNETIC BEARINGS**  
RT LEVITATION  
MAGNETIC SUSPENSION

• **MAGNETIC ENERGY STORAGE**  
GS ENERGY STORAGE  
**MAGNETIC ENERGY STORAGE**  
RT ENERGY TECHNOLOGY  
MAGNET COILS  
MAGNETIC FIELDS

**MAGNETIC ENERGY STORAGE-(CONT.)**  
SUPERCONDUCTING MAGNETS

• **MAGNETIC SUSCEPTIBILITY**  
USE MAGNETIC PERMEABILITY

**MAGSAT B SATELLITE**  
GS SATELLITES  
ARTIFICIAL SATELLITES  
**MAGSAT B SATELLITE**  
EARTH SATELLITES  
**MAGSAT B SATELLITE**  
SCIENTIFIC SATELLITES  
**MAGSAT B SATELLITE**  
RT GEOMAGNETISM  
MAGNETOMETERS

**MANNED MANEUVERING UNITS**  
GS EXTRAVEHICULAR MOBILITY UNITS  
ASTRONAUT MANEUVERING  
EQUIPMENT  
**MANNED MANEUVERING UNITS**  
RT ASTRONAUT LOCOMOTION  
EXTRAVEHICULAR ACTIVITY  
LIFE SUPPORT SYSTEMS  
ORBITAL SERVICING  
SELF MANEUVERING UNITS  
SPACE SUITS

**MAPSAT**  
GS SATELLITES  
ARTIFICIAL SATELLITES  
**MAPSAT**  
EARTH SATELLITES  
**MAPSAT**  
RT LANDSAT SATELLITES  
MAPPING  
REMOTE SENSING  
STEREOPHOTOGRAPHY

**MARANGONI CONVECTION**  
GS CONVECTION  
**MARANGONI CONVECTION**  
RT CONVECTIVE FLOW  
FREE CONVECTION  
INTERFACIAL TENSION  
LOW GRAVITY MANUFACTURING  
MELTS (CRYSTAL GROWTH)  
REDUCED GRAVITY  
SPACE PROCESSING

**MARECS MARITIME SATELLITES**  
GS ESA SPACECRAFT  
ESA SATELLITES  
**MARECS MARITIME SATELLITES**  
SATELLITES  
ARTIFICIAL SATELLITES  
COMMUNICATION SATELLITES  
**MARECS MARITIME SATELLITES**  
ESA SATELLITES  
**MARECS MARITIME SATELLITES**  
MARITIME SATELLITES  
**MARECS MARITIME SATELLITES**  
EARTH SATELLITES  
COMMUNICATION SATELLITES  
**MARECS MARITIME SATELLITES**  
ESA SATELLITES  
**MARECS MARITIME SATELLITES**  
MARITIME SATELLITES  
**MARECS MARITIME SATELLITES**  
RT EUROPEAN SPACE PROGRAMS  
SATELLITE NETWORKS

**MARINER MARK 2 SPACECRAFT**  
RT FLYBY MISSIONS  
INTERPLANETARY FLIGHT  
∞ SPACECRAFT

• **MARS 7 SPACECRAFT**  
GS INTERPLANETARY SPACECRAFT  
MARS PROBES  
**MARS 7 SPACECRAFT**  
SOVIET SPACECRAFT  
**MARS 7 SPACECRAFT**  
UNMANNED SPACECRAFT  
SPACE PROBES  
MARS PROBES  
**MARS 7 SPACECRAFT**  
RT U.S.S.R. SPACE PROGRAM

**MEGAMECHANICS**  
RT LARGE SPACE STRUCTURES  
STRUCTURAL ANALYSIS  
STRUCTURAL ENGINEERING

**MEGAMECHANICS-(CONT.)**  
TRUSSES

**MEMORY (COMPUTERS)**  
RT ARCHITECTURE (COMPUTERS)  
COMPUTER DESIGN  
COMPUTER STORAGE DEVICES  
COMPUTERS  
HOLE BURNING  
MAGNETIC DISKS  
VIDEO DISKS

**MESFETS**  
USE FIELD EFFECT TRANSISTORS

**MESH (MATHEMATICS)**  
USE COMPUTATIONAL GRIDS

**MESON RESONANCE**  
GS PARTICLES  
ELEMENTARY PARTICLES  
BOSONS  
MESONS  
**MESON RESONANCE**  
X MESONS  
FERMIONS  
**MESON RESONANCE**  
NUCLEAR PARTICLES  
BOSONS  
MESONS  
**MESON RESONANCE**  
X MESONS  
RESONANCE  
**MESON RESONANCE**  
X MESONS  
RT BARYONS  
HYPERONS

• **METAL NITRIDES**  
GS NITROGEN COMPOUNDS  
NITRIDES  
**METAL NITRIDES**  
RT ALUMINUM NITRIDES  
BERYLLIUM NITRIDES  
TANTALUM NITRIDES  
TITANIUM NITRIDES  
TRANSITION METALS  
ZIRCONIUM NITRIDES

**METALLICITY**  
RT ABUNDANCE  
CHEMICAL ANALYSIS  
CHEMICAL COMPOSITION  
GALACTIC CLUSTERS  
GALAXIES  
GLOBULAR CLUSTERS  
HYDROGEN  
INTERSTELLAR MATTER  
MASS RATIOS  
METALLIC STARS  
METALS  
SPECTROSCOPIC ANALYSIS  
STAR CLUSTERS  
STARS

**METEOROID TECHNOLOGY SATELLITE**  
USE EXPLORER 46 SATELLITE

**MICROGRAVITY**  
USE REDUCED GRAVITY

∞ **MICROGRAVITY APPLICATIONS**  
SN (USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED-CONSULT THE TERMS  
LISTED BELOW)  
RT BIOPROCESSING  
ELECTROPHORESIS  
LOW GRAVITY MANUFACTURING  
SPACE COMMERCIALIZATION  
SPACE MANUFACTURING  
SPACE PROCESSING

**MICROMECHANICS**  
RT COMPOSITE MATERIALS  
CRACK PROPAGATION  
FRACTURE MECHANICS  
MECHANICAL PROPERTIES  
MICROSTRUCTURE  
REINFORCING FIBERS  
STRESS CONCENTRATION

**MILANKOVITCH THEORY**  
USE CLIMATOLOGY

## MINIMAL SURFACES

### MINIMAL SURFACES

RT BOUNDARY VALUE PROBLEMS  
CONFORMAL MAPPING  
FINITE ELEMENT METHOD  
∞ SURFACES

### MISFETS

USE FIELD EFFECT TRANSISTORS

### MIXING DEPTH

USE MIXING HEIGHT

### MIXING HEIGHT

UF MIXING DEPTH  
RT AIR POLLUTION  
ATMOSPHERIC CIRCULATION  
CONVECTION  
CONVECTION CURRENTS  
VERTICAL AIR CURRENTS  
WIND (METEOROLOGY)

### MOBILE COMMUNICATION SYSTEMS

GS MOBILE COMMUNICATION SYSTEMS  
LAND MOBILE SATELLITE SERVICE  
RT COMMUNICATION SATELLITES  
MSAT  
RADIO COMMUNICATION

### MODE COUPLING

USE COUPLED MODES

## • MODULARITY

RT ARCHITECTURE (COMPUTERS)  
AVIONICS  
COMPUTER PROGRAMS  
ELECTRONIC MODULES  
SYSTEMS ENGINEERING

### MOS (JAPANESE SPACECRAFT)

USE JAPANESE SPACECRAFT

### MOTION SIMULATION

GS HUMAN FACTORS ENGINEERING  
MOTION SIMULATION  
SIMULATION  
MOTION SIMULATION  
RT FLIGHT SIMULATION  
FLIGHT SIMULATORS  
MOTION SIMULATORS

### MOZAMBIQUE

GS NATIONS  
MOZAMBIQUE  
RT AFRICA

### MUCUS

GS BODY FLUIDS  
MUCUS  
RT SALIVA

### MULTI-ANODE MICROCHANNEL ARRAYS

RT ANODES  
ARRAYS  
ASTRONOMICAL TELESCOPES  
MICROCHANNELS  
RADIATION DETECTORS  
SPACEBORNE TELESCOPES

### MULTIBEAM ANTENNAS

RT BEAMS (RADIATION)  
SATELLITE ANTENNAS

## • MULTISENSOR APPLICATIONS

RT IMAGE PROCESSING  
IMAGING TECHNIQUES  
PATTERN RECOGNITION  
REMOTE SENSING  
REMOTE SENSORS

## • MULTITEMPORAL ANALYSIS

USE TEMPORAL RESOLUTION

### MURCHISON METEORITE

GS CELESTIAL BODIES  
METEORITES  
STONY METEORITES  
CHONDRITES  
CARBONACEOUS CHONDRITES  
MURCHISON METEORITE

### MUSHY ZONES

UF LIQUID PLUS SOLID ZONES  
RT CASTING

### MUSHY ZONES-(CONT.)

COOLING  
METALLOGRAPHY  
PHASE TRANSFORMATIONS  
SOLIDIFICATION

## N

### NARROWBAND

GS BANDWIDTH  
NARROWBAND  
RT BROADBAND  
FREQUENCIES

### NEUTRAL ATMOSPHERES

RT ∞ ATMOSPHERES

### NEW BRUNSWICK

GS NATIONS  
CANADA  
NEW BRUNSWICK

### NEW YORK CITY (NY)

GS CITIES  
NEW YORK CITY (NY)  
RT NEW YORK

### NEWFOUNDLAND

GS LANDFORMS  
ISLANDS  
NEWFOUNDLAND  
NATIONS  
CANADA  
NEWFOUNDLAND

## • NICKEL IRON BATTERIES

GS ELECTROCHEMICAL CELLS  
ELECTRIC BATTERIES  
NICKEL IRON BATTERIES  
RT LEAD ACID BATTERIES  
NICKEL ZINC BATTERIES  
STORAGE BATTERIES

### NITROGEN FIXATION

USE NITROGENATION

### NITROGENATION

UF NITROGEN FIXATION  
GS CHEMICAL REACTIONS  
NITROGENATION  
RT LEGUMINOUS PLANTS  
LIGHTNING  
NITROGEN

## • NITROUS ACID

RT AIR POLLUTION  
ATMOSPHERIC CHEMISTRY  
NITRIC ACID  
NITROGEN OXIDES  
REACTION KINETICS

### NOAA E

USE NOAA 8 SATELLITE

### NOAA 8 SATELLITE

UF NOAA E  
GS SATELLITES  
ARTIFICIAL SATELLITES  
METEOROLOGICAL SATELLITES  
NOAA 8 SATELLITE  
EARTH SATELLITES  
METEOROLOGICAL SATELLITES  
NOAA 8 SATELLITE  
RT SARSAT

## • NONRELATIVISTIC ELECTRONS

USE ELECTRONS

### NORTH VIETNAM

USE VIETNAM

### NORTHWEST TERRITORIES

GS NATIONS  
CANADA  
NORTHWEST TERRITORIES

### NOVA COMPUTERS

GS DATA PROCESSING EQUIPMENT  
COMPUTERS  
DIGITAL COMPUTERS

## NASA THESAURUS SUPPLEMENT (PART 1)

### NOVA COMPUTERS-(CONT.)

MINICOMPUTERS  
NOVA COMPUTERS

### NOVA SATELLITES

GS SATELLITES  
ARTIFICIAL SATELLITES  
NAVIGATION SATELLITES  
NOVA SATELLITES  
EARTH SATELLITES  
NAVIGATION SATELLITES  
NOVA SATELLITES  
UNMANNED SPACECRAFT  
NAVIGATION SATELLITES  
NOVA SATELLITES  
RT DISCOS (SATELLITE ATTITUDE  
CONTROL)  
TRANSIT NAVIGATION SYSTEM

### NOVA SCOTIA

GS NATIONS  
CANADA  
NOVA SCOTIA

### NOWCASTING

GS FORECASTING  
WEATHER FORECASTING  
NOWCASTING  
METEOROLOGY  
WEATHER FORECASTING  
NOWCASTING

### NUCLEAR MEDICINE

UF RADIATION MEDICINE  
GS MEDICAL SCIENCE  
NUCLEAR MEDICINE  
RADIOBIOLOGY  
RT ANTIRADIATION DRUGS  
HEALTH PHYSICS  
RADIOPATHOLOGY

### NUCLEAR WASTES

USE RADIOACTIVE WASTES

### NUMERICAL DATA BASES

GS INFORMATION SYSTEMS  
NUMERICAL DATA BASES  
RT INFORMATION RETRIEVAL  
ON-LINE SYSTEMS

## O

### OPEN PROJECT

UF ORIGIN OF PLASMAS IN EARTH  
NEIGHBORHOOD  
RT EARTH ATMOSPHERE  
MAGNETOSPHERE  
PLASMA DIAGNOSTICS  
PLASMA PHYSICS  
PLASMASPHERE  
SATELLITE-BORNE INSTRUMENTS  
SPACE PLASMAS

### OPHIUCHI CLOUDS

RT CLOUD PHYSICS  
INTERSTELLAR GAS  
INTERSTELLAR MATTER  
NEBULAE

### OPTICAL BISTABILITY

GS ELECTROMAGNETIC PROPERTIES  
OPTICAL PROPERTIES  
OPTICAL BISTABILITY  
RT HYSTERESIS  
INTEGRATED OPTICS  
LIGHT TRANSMISSION  
NONLINEAR OPTICS  
OPTICAL DATA STORAGE MATERIALS  
OPTICAL EQUIPMENT  
OPTICAL MEASURING INSTRUMENTS  
OPTICAL MEMORY (DATA STORAGE)  
OPTICAL WAVEGUIDES  
SWITCHING CIRCUITS

### OPTICAL COMPUTERS

GS DATA PROCESSING EQUIPMENT  
COMPUTERS  
OPTICAL COMPUTERS  
RT COHERENT LIGHT  
COMPUTER DESIGN  
ELECTRO-OPTICS

**OPTICAL COMPUTERS-(CONT.)**

OPTICAL EQUIPMENT  
OPTICAL MEMORY (DATA STORAGE)

**OPTICAL DISKS**

GS PERIPHERAL EQUIPMENT (COMPUTERS)  
COMPUTER STORAGE DEVICES  
**OPTICAL DISKS**  
RT DATA STORAGE  
LASER APPLICATIONS  
OPTICAL DATA PROCESSING  
OPTICAL EQUIPMENT  
OPTICAL MEMORY (DATA STORAGE)  
VIDEO DISKS

**ORATORY**

USE PUBLIC SPEAKING

**ORBITAL MANEUVERING VEHICLES**

RT ORBIT TRANSFER VEHICLES  
ORBITAL SERVICING  
POWER MODULES (STS)  
REMOTELY PILOTED VEHICLES  
SATELLITES  
∞ SPACECRAFT

**ORIGIN OF PLASMAS IN EARTH NEIGHBORHOOD**

USE OPEN PROJECT

**OSCILLATOR STRENGTHS**

RT ABSORPTION SPECTRA  
ABSORPTIVITY  
ELECTRON OSCILLATIONS  
ELECTRON TRANSITIONS  
LINE SPECTRA  
MOLECULAR OSCILLATIONS  
MOLECULAR OSCILLATORS  
OSCILLATORS  
SPECTRAL LINE WIDTH

**P****PARTICLE LADEN JETS**

RT FUEL FLOW  
JET FLOW  
PARTICLES  
TURBULENT FLOW

**PAYLOAD TRANSFER**

RT ORBITAL SERVICING  
PAYLOAD RETRIEVAL (STS)  
SPACE MAINTENANCE

**PBB**

USE POLYBROMINATED BIPHENYLS

**PERSONAL COMPUTERS**

GS DATA PROCESSING EQUIPMENT  
COMPUTERS  
DIGITAL COMPUTERS  
MICROCOMPUTERS  
**PERSONAL COMPUTERS**  
RT COMPUTER TECHNIQUES

**PHOTOCINOMETRY**

USE PHOTOGRAMMETRY

**PIONEER 12 SPACE PROBE**

USE PIONEER VENUS SPACECRAFT

**• PLANETARY RINGS**

GS CELESTIAL BODIES  
**PLANETARY RINGS**  
JUPITER RINGS  
SATURN RINGS  
RT PLANETARY ATMOSPHERES  
PLANETS  
∞ RINGS  
URANUS RINGS

**PLASMA ANTENNAS**

GS ANTENNAS  
**PLASMA ANTENNAS**  
RT ANTENNA DESIGN  
ANTENNA RADIATION PATTERNS  
PLASMA CYLINDERS  
SPACECRAFT COMMUNICATION

**PLASMA BUBBLES**

RT F REGION

**PLASMA BUBBLES-(CONT.)**

PLASMA DENSITY

**POLAR CUSPS**

RT AERONOMY  
GEOMAGNETIC LATITUDE  
GEOMAGNETIC TAIL  
GEOMAGNETISM  
GEOPHYSICS  
INTERPLANETARY SPACE  
LINES OF FORCE  
MAGNETIC FIELD CONFIGURATIONS  
MAGNETIC FIELDS  
MAGNETOPAUSE  
MAGNETOSPHERE  
PLANETARY MAGNETIC FIELDS  
POLAR REGIONS  
SPACE PLASMAS

**POLARITONS**

GS **POLARITONS**  
PLASMONS

**POLYBROMINATED BIPHENYLS**

UF PBB  
GS TOXINS AND ANTITOXINS  
**POLYBROMINATED BIPHENYLS**  
RT FLAME RETARDANTS  
POLYCHLORINATED BIPHENYLS

**• POSEIDON SATELLITE**

GS SATELLITES  
ARTIFICIAL SATELLITES  
**POSEIDON SATELLITE**

**POWER FACTOR CONTROLLERS**

GS CONTROLLERS  
**POWER FACTOR CONTROLLERS**  
RT CURRENT REGULATORS  
ELECTRIC MOTORS  
ENERGY CONSERVATION  
ENERGY CONVERSION EFFICIENCY  
INDUCTION MOTORS  
POWER EFFICIENCY  
VOLTAGE REGULATORS

**∞ POWER LOSS**

SN *(USE OF A MORE SPECIFIC TERM IS  
RECOMMENDED--CONSULT THE TERMS  
LISTED BELOW)*  
RT ENERGY DISSIPATION  
POWER EFFICIENCY

**PRE-MAIN SEQUENCE STARS**

GS CELESTIAL BODIES  
STARS  
MAIN SEQUENCE STARS  
**PRE-MAIN SEQUENCE STARS**  
RT STELLAR EVOLUTION

**PREPROCESSING**

RT DATA PROCESSING  
DATA REDUCTION  
IMAGE PROCESSING

**PRINCE EDWARD ISLAND**

GS LANDFORMS  
ISLANDS  
**PRINCE EDWARD ISLAND**  
NATIONS  
CANADA  
**PRINCE EDWARD ISLAND**

**PRINCIPAL COMPONENTS ANALYSIS**

RT IMAGE PROCESSING  
IMAGING TECHNIQUES  
KARHUNEN-LOEVE EXPANSION  
PATTERN RECOGNITION

**• PROCEEDINGS**

USE CONFERENCES

**PROTOCOL (COMPUTERS)**

RT CHANNELS (DATA TRANSMISSION)  
COMMUNICATION NETWORKS  
COMPUTER NETWORKS  
DATA LINKS  
DATA PROCESSING  
DATA TRANSMISSION  
PACKET SWITCHING

**PSEUDOPOTENTIALS**

GS IMPURITIES

**PSEUDOPOTENTIALS-(CONT.)**

**PSEUDOPOTENTIALS**

RT IMPURITIES  
MELTING  
SEMICONDUCTORS (MATERIALS)

**PUBLIC SPEAKING**

UF ORATORY  
RT LECTURES  
SPEECH

**PULSE REPETITION RATE**

GS RATES (PER TIME)  
PULSE RATE  
**PULSE REPETITION RATE**  
RT ∞ FREQUENCY RESPONSE  
OPTICAL PUMPING  
PULSE DURATION  
PULSE GENERATORS  
PULSED LASERS

**P78-2 SATELLITE**

USE SCATHA SATELLITE

**Q****QUANTUM ELECTRONICS**

RT ∞ ELECTRONICS  
LASERS  
QUANTUM MECHANICS  
QUANTUM THEORY

**QUERY LANGUAGES**

GS LANGUAGES  
COMMAND LANGUAGES  
**QUERY LANGUAGES**  
RT INFORMATION RETRIEVAL

**R****RADARSAT**

GS CANADIAN SPACECRAFT  
**RADARSAT**  
RT CANADIAN SPACE PROGRAMS  
SYNTHETIC APERTURE RADAR

**RADIATION MEDICINE**

USE NUCLEAR MEDICINE

**RADIOCARDIOGRAPHY**

GS BIOENGINEERING  
BIOMETRICS  
**RADIOCARDIOGRAPHY**  
CARDIOLOGY  
**RADIOCARDIOGRAPHY**  
RT CARDIOLOGY

**RAYLEIGH-BENARD CONVECTION**

GS CONVECTION  
FREE CONVECTION  
**RAYLEIGH-BENARD CONVECTION**  
FLUID FLOW  
CONVECTIVE FLOW  
**RAYLEIGH-BENARD CONVECTION**  
BENARD CELLS  
RT CONVECTION CURRENTS  
CONVECTIVE HEAT TRANSFER  
FORCED CONVECTION  
HOT SURFACES  
LAMINAR FLOW  
RAYLEIGH NUMBER  
THERMAL BOUNDARY LAYER

**• REAGENTS**

RT CATALYSTS  
CHEMICAL ANALYSIS  
CHEMICAL REACTIONS  
REACTION KINETICS

**REARWARD FACING STEPS**

USE BACKWARD FACING STEPS

**RECTANGULAR WAVEGUIDES**

GS TRANSMISSION LINES  
COMMUNICATION CABLES  
WAVEGUIDES  
**RECTANGULAR WAVEGUIDES**



## RED DWARF STARS

### RECTANGULAR WAVEGUIDES-(CONT.)

RT BEAM WAVEGUIDES  
MICROWAVE FILTERS

### RED DWARF STARS

GS CELESTIAL BODIES  
STARS  
DWARF STARS  
RED DWARF STARS  
RT HOT STARS  
LATE STARS  
MAIN SEQUENCE STARS  
STELLAR LUMINOSITY  
STELLAR MAGNITUDE  
SUBDWARF STARS  
SUPERNOVA REMNANTS  
WHITE DWARF STARS

### REFLECTION NEBULAE

GS CELESTIAL BODIES  
NEBULAE  
REFLECTION NEBULAE  
RT COSMIC DUST  
INTERSTELLAR MATTER  
LIGHT SCATTERING

### REFORESTATION

GS MANAGEMENT  
RESOURCES MANAGEMENT  
FOREST MANAGEMENT  
REFORESTATION  
RT FORESTS  
TIMBER INVENTORY

### • RESIDUAL STRENGTH

RT CRACK PROPAGATION  
FATIGUE (MATERIALS)  
FRACTURE MECHANICS  
FRACTURE STRENGTH  
RESIDUAL STRESS  
 $\infty$  STRENGTH  
TENSILE STRENGTH

### REVERSE SWITCHING RECTIFIERS

GS RECTIFIERS  
REVERSE SWITCHING RECTIFIERS  
RT CRYSTAL RECTIFIERS  
MODULATORS  
SOLID STATE DEVICES

### ROBOTICS

RT ARTIFICIAL INTELLIGENCE  
AUTOMATA THEORY  
AUTOMATIC CONTROL  
COMPUTER AIDED DESIGN  
COMPUTER AIDED MANUFACTURING  
COMPUTER AIDED MAPPING  
COMPUTER VISION  
MAN MACHINE SYSTEMS  
MANIPULATORS  
ROBOTS  
TELEOPERATORS  
VOICE CONTROL

### • ROENTGEN SATELLITE

USE ROSAT MISSION

### ROMANIA

UF RUMANIA  
GS NATIONS  
ROMANIA  
RT BLACK SEA  
CENTRAL EUROPE  
EUROPE

### ROSAT MISSION

UF ROENTGEN SATELLITE  
GS OBSERVATORIES  
ASTRONOMICAL OBSERVATORIES  
ROSAT MISSION  
SATELLITES  
ARTIFICIAL SATELLITES  
ROSAT MISSION  
EARTH SATELLITES  
ROSAT MISSION  
RT ASTRONOMICAL SATELLITES  
INTERNATIONAL COOPERATION  
SPACEBORNE ASTRONOMY  
SPACEBORNE TELESCOPES  
X RAY ASTRONOMY  
X RAY SOURCES  
X RAY TELESCOPES

### ROTARY ENGINES

GS ENGINES  
INTERNAL COMBUSTION ENGINES  
ROTARY ENGINES  
WANKEL ENGINES  
RT AIRCRAFT ENGINES  
AUTOMOBILE ENGINES  
PISTON ENGINES

### ROTOR BODY INTERACTIONS

RT AERODYNAMIC CHARACTERISTICS  
AERODYNAMIC CONFIGURATIONS  
HELICOPTER DESIGN  
ROTOR AERODYNAMICS

### RUMANIA

USE ROMANIA

## S

### SAND CASTING

GS FORMING TECHNIQUES  
CASTING  
SAND CASTING  
RT MOLDING MATERIALS  
SANDS

### SATELLITE DOPPLER POSITIONING

RT DOPPLER EFFECT  
DOPPLER NAVIGATION  
DOPPLER RADAR  
GEODESY  
GEODETIC ACCURACY  
GEODETIC COORDINATES  
GEODETIC SATELLITES  
GEODETIC SURVEYS  
POLYSTATION DOPPLER TRACKING  
SYSTEM  
POSITIONING  
SATELLITE TRACKING  
TRACKING (POSITION)

### SATELLITE IMAGERY

RT ATMOSPHERIC CORRECTION  
IMAGE ANALYSIS  
IMAGERY  
IMAGING TECHNIQUES  
SATELLITE OBSERVATION  
SATELLITE-BORNE PHOTOGRAPHY  
VEGETATIVE INDEX

### SCANDINAVIA

RT DENMARK  
FINLAND  
NORWAY  
SWEDEN

### SCARPS

USE ESCARPMENTS

### SDV

USE SHUTTLE DERIVED VEHICLES

### • SEA SURFACE TEMPERATURE

GS TEMPERATURE  
WATER TEMPERATURE  
OCEAN TEMPERATURE  
SEA SURFACE TEMPERATURE  
RT AIR WATER INTERACTIONS  
OCEAN SURFACE  
OCEANOGRAPHY  
SURFACE TEMPERATURE

### SEASAT 1

GS SATELLITES  
ARTIFICIAL SATELLITES  
SEASAT SATELLITES  
SEASAT 1  
EARTH SATELLITES  
SEASAT SATELLITES  
SEASAT 1  
RT LANDSAT SATELLITES  
NASA PROGRAMS  
OCEANOGRAPHY  
PROGRAMS  
SEASAT-B SATELLITE

### SELECTIVE SURFACES

UF SOLAR SELECTIVE COATINGS  
RT ENERGY ABSORPTION FILMS  
SELECTIVITY

## NASA THESAURUS SUPPLEMENT (PART 1)

### SELECTIVE SURFACES-(CONT.)

SOLAR COLLECTORS  
SOLAR ENERGY ABSORBERS

### SELF SHADOWING

RT LARGE SPACE STRUCTURES  
SHADOWS  
SOLAR ARRAYS

### SEO (INDIAN SPACECRAFT)

USE INDIAN SPACECRAFT

### SFAR

USE SOUND FIXING AND RANGING

### SHELL ANODES

GS ELECTRODES  
ANODES  
SHELL ANODES  
RT HEAT MEASUREMENT

### SHIP TO SHORE COMMUNICATION

GS TELECOMMUNICATION  
COMMUNICATION  
SHIP TO SHORE COMMUNICATION  
RT DATA TRANSMISSION  
RADIO COMMUNICATION  
SHIPS  
TELEMETRY

### SHORT CIRCUIT CURRENTS

GS ELECTRIC CURRENT  
SHORT CIRCUIT CURRENTS  
RT OPEN CIRCUIT VOLTAGE  
PHOTOVOLTAIC CELLS  
SHORT CIRCUITS  
SOLAR CELLS  
VOLT-AMPERE CHARACTERISTICS

### SHUTTLE DERIVED VEHICLES

UF SDV  
GS MANNED SPACECRAFT  
SHUTTLE DERIVED VEHICLES  
RT SPACE SHUTTLE ORBITERS  
SPACE SHUTTLES  
 $\infty$  SPACECRAFT  
SPACECRAFT DESIGN

### • SHUTTLE IMAGING RADAR

UF SIR-A  
SIR-B  
GS PAYLOADS  
SHUTTLE IMAGING RADAR  
RT RADAR GEOLOGY  
RADAR IMAGERY  
REMOTE SENSING  
SPACE SHUTTLE PAYLOADS  
SYNTHETIC APERTURE RADAR

### • SIR-A

USE SHUTTLE IMAGING RADAR

### • SIR-B

USE SHUTTLE IMAGING RADAR

### SOBOLEV SPACE

GS ALGEBRA  
VECTOR SPACES  
HILBERT SPACE  
BANACH SPACE  
SOBOLEV SPACE  
ANALYSIS (MATHEMATICS)  
FUNCTION SPACE  
HILBERT SPACE  
BANACH SPACE  
SOBOLEV SPACE  
FUNCTIONAL ANALYSIS  
HILBERT SPACE  
BANACH SPACE  
SOBOLEV SPACE  
RT BOUNDARY VALUE PROBLEMS  
EUCLIDEAN GEOMETRY

### SOFAR

USE SOUND FIXING AND RANGING

### SOFTWARE ENGINEERING

GS SOFTWARE ENGINEERING  
COMPUTER PROGRAMMING  
ASSEMBLER ROUTINES  
LANGUAGE PROGRAMMING  
LOGIC PROGRAMMING  
MICROPROGRAMMING

**SOFTWARE ENGINEERING-(CONT.)**

RT MULTIPROGRAMMING  
ON-LINE PROGRAMMING  
PARALLEL PROGRAMMING  
SYMBOLIC PROGRAMMING  
COMPUTER PROGRAMS  
COMPUTER SYSTEMS DESIGN  
COMPUTER SYSTEMS PROGRAMS  
DATA BASES  
SOFTWARE TOOLS  
SYSTEMS ENGINEERING

**SOFTWARE TOOLS**

RT ARCHITECTURE (COMPUTERS)  
COMPUTER PROGRAMMING  
COMPUTER PROGRAMS  
COMPUTER SYSTEMS DESIGN  
COMPUTER SYSTEMS PROGRAMS  
DATA BASE MANAGEMENT SYSTEMS  
PROGRAM VERIFICATION (COMPUTERS)  
SOFTWARE ENGINEERING

**SOLAR BACKSCATTER UV SPECTROMETER**

GS MEASURING INSTRUMENTS  
SPECTROMETERS  
SOLAR BACKSCATTER UV  
SPECTROMETER  
RT IRRADIANCE  
SATELLITE-BORNE INSTRUMENTS

**• SOLAR DYNAMICS**

USE HELIOSEISMOLOGY

**SOLAR LASERS**

USE SOLAR-PUMPED LASERS

**SOLAR OPTICAL TELESCOPE**

UF SOT  
GS TELESCOPES  
SPACEBORNE TELESCOPES  
SOLAR OPTICAL TELESCOPE  
RT ASTRONOMICAL TELESCOPES  
SOLAR INSTRUMENTS  
SOLAR PHYSICS

**SOLAR PLANETARY INTERACTIONS**

GS SOLAR PLANETARY INTERACTIONS  
SOLAR TERRESTRIAL INTERACTIONS  
RT MAGNETIC DISTURBANCES  
MAGNETOSPHERE  
PLANETARY ATMOSPHERES  
PLANETARY MAGNETIC FIELDS  
PLASMA INTERACTIONS  
SOLAR ACTIVITY  
SOLAR ACTIVITY EFFECTS  
SOLAR CORPUSCULAR RADIATION  
SOLAR WIND  
SOLAR WIND VELOCITY

**SOLAR RECEIVERS**

USE SOLAR COLLECTORS

**• SOLAR SEISMOLOGY**

USE HELIOSEISMOLOGY

**SOLAR SELECTIVE COATINGS**

USE SELECTIVE SURFACES

**SOLAR THERMAL ELECTRIC POWER PLANTS**

GS ELECTRIC POWER PLANTS  
SOLAR THERMAL ELECTRIC POWER  
PLANTS  
RT ∞POWER PLANTS  
SOLAR ENERGY  
THERMAL ENERGY

**SOLAR-PUMPED LASERS**

UF SOLAR LASERS  
GS STIMULATED EMISSION DEVICES  
LASERS  
SOLAR-PUMPED LASERS  
RT LASER PUMPING  
OPTICAL PUMPING  
SOLAR ENERGY CONVERSION  
SOLAR RADIATION

**SOLRAD 10 SATELLITE**

USE EXPLORER 44 SATELLITE

**• SOLVOLYSIS**

GS RECLAMATION  
MATERIALS RECOVERY  
SOLVOLYSIS

**SOLVOLYSIS-(CONT.)**

RT RECYCLING  
SOLVENTS  
SONIC FATIGUE  
USE ACOUSTIC FATIGUE

**• SORTIE SYSTEMS**

UF SORTIE CAN  
SORTIE LAB  
GS PAYLOADS  
SORTIE SYSTEMS  
RT SPACE LABORATORIES  
SPACE SHUTTLE PAYLOADS  
SPACE SHUTTLES  
SPACE STATIONS  
SPACELAB PAYLOADS

**SOT**

USE SOLAR OPTICAL TELESCOPE

**SOUND FIXING AND RANGING**

UF SFAR  
SOFAR  
RT SOUND RANGING  
SOUND TRANSMISSION  
UNDERWATER ACOUSTICS

**SPACE COMMERCIALIZATION**

RT AEROSPACE INDUSTRY  
COMMERCIAL SPACECRAFT  
COMMUNICATION SATELLITES  
∞MICROGRAVITY APPLICATIONS  
SPACE INDUSTRIALIZATION  
SPACE MANUFACTURING  
SPACE PROCESSING  
SPACECRAFT LAUNCHING  
TECHNOLOGY TRANSFER

**SPACE HABITATS**

RT AEROSPACE ENVIRONMENTS  
CLOSED ECOLOGICAL SYSTEMS  
LIFE SUPPORT SYSTEMS  
SPACE COLONIES  
SPACE STATIONS  
SPACECREWS

**• SPACE INFRARED TELESCOPE FACILITY**

GS OBSERVATORIES  
ASTRONOMICAL OBSERVATORIES  
ASTRONOMICAL SATELLITES  
SPACE INFRARED TELESCOPE  
FACILITY  
SATELLITES  
ARTIFICIAL SATELLITES  
ASTRONOMICAL SATELLITES  
SPACE INFRARED TELESCOPE  
FACILITY  
TELESCOPES  
ASTRONOMICAL TELESCOPES  
INFRARED TELESCOPES  
SPACE INFRARED TELESCOPE  
FACILITY

**SPACE OPERATIONS CENTER (NASA)**

GS MANNED SPACECRAFT  
SPACE STATIONS  
ORBITAL SPACE STATIONS  
SPACE OPERATIONS CENTER  
(NASA)  
STATIONS  
SPACE STATIONS  
ORBITAL SPACE STATIONS  
SPACE OPERATIONS CENTER  
(NASA)  
RT LARGE SPACE STRUCTURES  
ORBITAL ASSEMBLY  
ORBITAL SERVICING

**• SPACE SHUTTLE MISSION 31-A**

UF STS-5  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 31-A  
RT COLUMBIA (ORBITER)

**• SPACE SHUTTLE MISSION 31-B**

UF STS-6  
GS TRANSPORTATION  
SPACE TRANSPORTATION

**SPACE SHUTTLE MISSION 31-B-(CONT.)**

SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 31-B  
RT CHALLENGER (ORBITER)

**• SPACE SHUTTLE MISSION 31-C**

UF SPACE SHUTTLE ORBITAL FLIGHT 7  
STS-7  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 31-C  
RT CHALLENGER (ORBITER)

**• SPACE SHUTTLE MISSION 31-D**

UF SPACE SHUTTLE ORBITAL FLIGHT 8  
STS-8  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 31-D  
RT CHALLENGER (ORBITER)

**• SPACE SHUTTLE MISSION 41-A**

UF SPACE SHUTTLE ORBITAL FLIGHT 9  
STS-9  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 41-A  
RT COLUMBIA (ORBITER)

**• SPACE SHUTTLE MISSION 41-B**

UF STS-11  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 41-B  
RT CHALLENGER (ORBITER)

**• SPACE SHUTTLE MISSION 41-C**

UF STS-13  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 41-C  
RT CHALLENGER (ORBITER)

**• SPACE SHUTTLE MISSION 41-D**

UF STS-14  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 41-D  
RT DISCOVERY (ORBITER)

**• SPACE SHUTTLE MISSION 41-G**

UF STS-17  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 41-G  
RT CHALLENGER (ORBITER)

**• SPACE SHUTTLE MISSION 51-A**

UF STS-19  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-A  
RT DISCOVERY (ORBITER)

**• SPACE SHUTTLE MISSION 51-B**

UF STS-21  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-B  
RT DISCOVERY (ORBITER)

## SPACE SHUTTLE MISSION 51-C

### • SPACE SHUTTLE MISSION 51-C

UF STS-20  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-C  
RT CHALLENGER (ORBITER)

### • SPACE SHUTTLE MISSION 51-D

UF STS-23  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-D  
RT DISCOVERY (ORBITER)

### • SPACE SHUTTLE MISSION 51-E

UF STS-22  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-E  
RT CHALLENGER (ORBITER)

### • SPACE SHUTTLE MISSION 51-F

UF STS-24  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-F  
RT CHALLENGER (ORBITER)

### • SPACE SHUTTLE MISSION 51-G

UF STS-25  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-G  
RT COLUMBIA (ORBITER)

### • SPACE SHUTTLE MISSION 51-H

UF STS-31  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-H  
RT ATLANTIS (ORBITER)

### • SPACE SHUTTLE MISSION 51-I

UF STS-27  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-I  
RT COLUMBIA (ORBITER)

### • SPACE SHUTTLE MISSION 51-J

UF STS-28  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-J  
RT ATLANTIS (ORBITER)

### • SPACE SHUTTLE MISSION 51-L

UF STS-26  
GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 51-L  
RT CHALLENGER (ORBITER)

### • SPACE SHUTTLE MISSIONS

GS TRANSPORTATION  
SPACE TRANSPORTATION  
SPACE TRANSPORTATION SYSTEM  
SPACE SHUTTLE MISSIONS  
SPACE SHUTTLE MISSION 31-A  
SPACE SHUTTLE MISSION 31-B  
SPACE SHUTTLE MISSION 31-C  
SPACE SHUTTLE MISSION 31-D  
SPACE SHUTTLE MISSION 41-A  
SPACE SHUTTLE MISSION 41-B

## SPACE SHUTTLE MISSIONS-(CONT.)

SPACE SHUTTLE MISSION 41-C  
SPACE SHUTTLE MISSION 41-D  
SPACE SHUTTLE MISSION 41-G  
SPACE SHUTTLE MISSION 51-A  
SPACE SHUTTLE MISSION 51-B  
SPACE SHUTTLE MISSION 51-C  
SPACE SHUTTLE MISSION 51-D  
SPACE SHUTTLE MISSION 51-E  
SPACE SHUTTLE MISSION 51-F  
SPACE SHUTTLE MISSION 51-G  
SPACE SHUTTLE MISSION 51-H  
SPACE SHUTTLE MISSION 51-I  
SPACE SHUTTLE MISSION 51-J  
SPACE SHUTTLE MISSION 51-L

### • SPACE SHUTTLE ORBITER 099

USE CHALLENGER (ORBITER)

### • SPACE SHUTTLE ORBITER 101

USE ENTERPRISE (ORBITER)

### • SPACE SHUTTLE ORBITER 102

USE COLUMBIA (ORBITER)

### • SPACE SHUTTLE ORBITER 103

USE DISCOVERY (ORBITER)

### • SPACE SHUTTLE ORBITER 104

USE ATLANTIS (ORBITER)

### • SPACE TELESCOPE

USE HUBBLE SPACE TELESCOPE

### • SPACEBORNE LASERS

GS STIMULATED EMISSION DEVICES  
LASERS  
SPACEBORNE LASERS  
RT AIRBORNE LASERS  
LASER APPLICATIONS  
REMOTE SENSORS

## SPACECRAFT EQUIPMENT

GS ONBOARD EQUIPMENT  
SPACECRAFT EQUIPMENT  
SPACECRAFT ELECTRONIC  
EQUIPMENT  
RT EQUIPMENT  
SPACECRAFT INSTRUMENTS

## SPACECRAFT MAINTENANCE

GS MAINTENANCE  
SPACECRAFT MAINTENANCE  
RT CHECKOUT  
PRELAUNCH TESTS  
SPACE VEHICLE CHECKOUT PROGRAM  
SPACECRAFT RELIABILITY  
TURNAROUND (STS)

### • SPARTAN SATELLITES

GS OBSERVATORIES  
ASTRONOMICAL OBSERVATORIES  
ASTRONOMICAL SATELLITES  
SPARTAN SATELLITES  
SATELLITES  
ARTIFICIAL SATELLITES  
ASTRONOMICAL SATELLITES  
SPARTAN SATELLITES  
RT ASTROPHYSICS  
SOLAR PHYSICS  
ULTRAVIOLET ASTRONOMY

## SPECTRAL METHODS

RT COMPUTATIONAL FLUID DYNAMICS  
DIFFERENTIAL EQUATIONS  
SPECTRUM ANALYSIS

## SPECTROPHOTOVOLTAICS

RT ENERGY CONVERSION EFFICIENCY  
ENERGY SPECTRA  
SOLAR CELLS  
SOLAR COLLECTORS

## SPEECHES

USE LECTURES

### • SPIN TEMPERATURE

SN (LIMITED TO ASTROPHYSICS)  
GS TEMPERATURE  
SPIN TEMPERATURE  
RT ABSORPTION SPECTRA

## NASA THESAURUS SUPPLEMENT (PART 1)

## SPIN TEMPERATURE-(CONT.)

ASTROPHYSICS  
HYDROGEN CLOUDS  
INTERSTELLAR GAS  
INTERSTELLAR MATTER

### • SPRAY INGESTION

RT GAS TURBINES  
LANDING GEAR  
SALT SPRAY TESTS

## SPRING (SEASON)

GS SEASONS  
SPRING (SEASON)  
RT AUTUMN  
SUMMER  
WINTER

## STATIC CHARACTERISTICS

SN (EXCLUDES STATICS)  
GS STATIC CHARACTERISTICS  
STATIC AERODYNAMIC  
CHARACTERISTICS  
RT STATIC LOADS  
STATIC STABILITY  
STATIC TESTS

## STATIC MODELS

GS MODELS  
STATIC MODELS  
RT APPROXIMATION  
DYNAMIC MODELS  
OPTIMIZATION

## STELLAR ACTIVITY

GS STELLAR ACTIVITY  
SOLAR ACTIVITY  
FACULAE  
SOLAR PROMINENCES  
SOLAR STORMS  
SPICULES  
STELLAR FLARES  
SOLAR FLARES  
SUNSPOTS  
STARSPOTS  
RT FLARE STARS  
FLARES  
MAGNETIC DISTURBANCES  
MAGNETOHYDRODYNAMICS  
PHOTOSPHERE  
STARS  
STELLAR LUMINOSITY  
STELLAR MAGNETIC FIELDS  
STELLAR MASS EJECTION  
STELLAR OSCILLATIONS  
STELLAR RADIATION  
SUNSPOT CYCLE

## STELLAR COLOR

RT STELLAR LUMINOSITY  
STELLAR MAGNITUDE  
STELLAR SPECTRA  
STELLAR SPECTROPHOTOMETRY

## STELLAR COMPOSITION

GS COMPOSITION (PROPERTY)  
CHEMICAL COMPOSITION  
STELLAR COMPOSITION  
RT ABUNDANCE  
B STARS  
CARBON STARS  
STARS  
STELLAR MODELS  
STELLAR STRUCTURE

## STELLAR CORES

GS CORES  
STELLAR CORES  
RT ASTROPHYSICS  
GRAVITATIONAL COLLAPSE  
LUNAR CORE  
PLANETARY CORES  
STARS  
STELLAR CORONAS  
STELLAR STRUCTURE

## STEREOPHONICS

RT ACOUSTICS  
HEARING

### • STRAIN MEASUREMENT

RT MEASUREMENT  
STRAIN GAGES  
STRAIN RATE

- STRAIN MEASUREMENT-(CONT.)**  
 STRESS-STRAIN DIAGRAMS  
 STRESS-STRAIN RELATIONSHIPS  
 STRUCTURAL STRAIN
- STRANGE ATTRACTORS**  
 RT CHAOS  
 FRACTALS  
 IMBEDDINGS (MATHEMATICS)  
 ITERATIVE SOLUTION  
 NONLINEAR SYSTEMS  
 NUMERICAL STABILITY  
 PERTURBATION THEORY  
 ∞ PHYSICS  
 RECURSIVE FUNCTIONS  
 STATE VECTORS  
 THEORETICAL PHYSICS  
 TURBULENCE
- STRATEGIC MATERIALS**  
 RT CHROMIUM  
 COBALT  
 MANGANESE  
 ∞ MATERIALS  
 METALS  
 STOCKPILING  
 TECHNOLOGY ASSESSMENT
- **STS-13**  
 USE SPACE SHUTTLE MISSION 41-C
- **STS-14**  
 USE SPACE SHUTTLE MISSION 41-D
- **STS-17**  
 USE SPACE SHUTTLE MISSION 41-G
- **STS-19**  
 USE SPACE SHUTTLE MISSION 51-A
- **STS-20**  
 USE SPACE SHUTTLE MISSION 51-C
- **STS-21**  
 USE SPACE SHUTTLE MISSION 51-B
- **STS-22**  
 USE SPACE SHUTTLE MISSION 51-E
- **STS-23**  
 USE SPACE SHUTTLE MISSION 51-D
- **STS-24**  
 USE SPACE SHUTTLE MISSION 51-F
- **STS-25**  
 USE SPACE SHUTTLE MISSION 51-G
- **STS-26**  
 USE SPACE SHUTTLE MISSION 51-L
- **STS-27**  
 USE SPACE SHUTTLE MISSION 51-I
- **STS-28**  
 USE SPACE SHUTTLE MISSION 51-J
- **STS-31**  
 USE SPACE SHUTTLE MISSION 51-H
- **SULFIDATION**  
 GS CHEMICAL REACTIONS  
**SULFIDATION**  
 RT CORROSION RESISTANCE  
 GAS-METAL INTERACTIONS  
 HEAT RESISTANT ALLOYS  
 NICKEL ALLOYS  
 SULFATION  
 SULFIDES
- SUPERCOMPUTERS**  
 GS **SUPERCOMPUTERS**  
 CRAY COMPUTERS
- SUPERCritical AIRFOILS**  
 GS AIRFOILS  
**SUPERCritical AIRFOILS**  
 SUPERCritical WINGS  
 RT AIRFOIL PROFILES
- SUPERLATTICES**  
 GS CRYSTAL LATTICES  
**SUPERLATTICES**  
 SEMICONDUCTORS (MATERIALS)  
**SUPERLATTICES**  
 RT CRYSTAL DISLOCATIONS  
 CRYSTAL STRUCTURE  
 LATTICE PARAMETERS
- SURFACE NOISE INTERACTIONS**  
 RT ACOUSTIC EXCITATION  
 ACOUSTIC SCATTERING  
 AEROACOUSTICS  
 AERODYNAMIC NOISE  
 TURBULENCE
- SWATH WIDTH**  
 RT AGRICULTURAL AIRCRAFT  
 FLIGHT PATHS  
 REMOTE SENSING  
 SATELLITE OBSERVATION
- **SWEDISH SPACE PROGRAM**  
 GS PROGRAMS  
 SPACE PROGRAMS  
**SWEDISH SPACE PROGRAM**  
 RT EUROPEAN SPACE PROGRAMS  
 SWEDEN
- **SWISS SPACE PROGRAM**  
 GS PROGRAMS  
 SPACE PROGRAMS  
**SWISS SPACE PROGRAM**  
 RT EUROPEAN SPACE PROGRAMS  
 SWITZERLAND
- SYMBIOTIC STARS**  
 GS CELESTIAL BODIES  
 STARS  
 BINARY STARS  
**SYMBIOTIC STARS**  
 HOT STARS  
 BLUE STARS  
**SYMBIOTIC STARS**  
 PECULIAR STARS  
**SYMBIOTIC STARS**  
 VARIABLE STARS  
**SYMBIOTIC STARS**  
 RT ABSORPTION SPECTRA  
 ECLIPSING BINARY STARS  
 EMISSION SPECTRA  
 FLARE STARS  
 M STARS  
 NOVAE  
 STELLAR ENVELOPES  
 STELLAR MASS ACCRETION  
 STELLAR OSCILLATIONS  
 STELLAR SPECTRA  
 STELLAR TEMPERATURE
- **SYNCHROPHASING**  
 RT AIRCRAFT NOISE  
 NOISE REDUCTION  
 PROPELLER BLADES  
 SYNCHRONISM
- T**
- TAGN**  
 UF TRIAMINO GUANIDINENITRATE  
 GS OXIDIZERS  
 ROCKET OXIDIZERS  
**TAGN**  
 PROPELLANTS  
 ROCKET PROPELLANTS  
**TAGN**  
 RT EXPLOSIVES
- TAIWAN**  
 UF REPUBLIC OF CHINA  
 GS NATIONS  
**TAIWAN**  
 RT ASIA  
 CHINA  
 CHINESE SPACE PROGRAMS  
 CHINESE SPACECRAFT  
 HONG KONG
- TATB**  
 UF TRIAMINOTRINITROBENZENE
- TATB-(CONT.)**  
 GS EXPLOSIVES  
**TATB**  
 PROPELLANTS  
 ROCKET PROPELLANTS  
**TATB**  
 RT ROCKET OXIDIZERS
- TAYLOR-GOERTLER INSTABILITY**  
 USE GOERTLER INSTABILITY
- TEARING MODES (PLASMAS)**  
 RT BALLOONING MODES  
 MODES
- TELEOPERATOR MANEUVERING SYSTEM**  
 USE TELEOPERATORS
- TELESCOPING STRUCTURES**  
 USE FOLDING STRUCTURES
- TEMPERATURE RATIO**  
 RT DATA CORRELATION  
 HEAT TRANSFER  
 RATIOS  
 TEMPERATURE
- THERMAL ANALYSIS**  
 UF DIFFERENTIAL THERMAL ANALYSIS  
 DTA (ANALYSIS)  
 RT ∞ ANALYZING  
 HEAT TRANSMISSION  
 TEMPERATURE GRADIENTS  
 TEMPERATURE PROFILES
- **THERMAL GRAVIMETRY**  
 USE THERMOGRAVIMETRY
- **THERMOGRAPHY**  
 RT INFRARED IMAGERY  
 NONDESTRUCTIVE TESTS  
 TEMPERATURE DISTRIBUTION  
 TEMPERATURE MEASUREMENT  
 THERMAL MAPPING
- ∞ **THRUSTORS**  
 SN *(USE OF A MORE SPECIFIC TERM IS RECOMMENDED--CONSULT THE TERMS LISTED BELOW)*  
 RT ION ENGINES  
 ROCKET ENGINES
- TIME TEMPERATURE PARAMETER**  
 RT AGING (METALLURGY)  
 AUSTENITIC STAINLESS STEELS  
 EMBRITTLEMENT  
 FRACTURE MECHANICS  
 LONG TERM EFFECTS  
 METALLOGRAPHY  
 PRECIPITATION HARDENING  
 TEMPERATURE EFFECTS
- TIP VANES**  
 GS ROTATING BODIES  
 ROTORS  
**TIP VANES**  
 TURBOMACHINERY  
 TURBINES  
 WIND TURBINES  
**TIP VANES**
- TOPPING CYCLE ENGINES**  
 RT AIRCRAFT ENGINES  
 LIQUID HYDROGEN  
 PROPULSION SYSTEM CONFIGURATIONS
- **TRANSATMOSPHERIC VEHICLES**  
 RT AEROSPACE VEHICLES  
 AEROSPACEPLANES  
 ∞ AIRCRAFT  
 AIRCRAFT DESIGN  
 ∞ SPACECRAFT  
 SPACECRAFT DESIGN
- TRANSIT NAVIGATION SYSTEM**  
 GS SATELLITE NAVIGATION SYSTEMS  
**TRANSIT NAVIGATION SYSTEM**  
 RT NASA PROGRAMS  
 NAVIGATION SATELLITES  
 NOVA SATELLITES  
 TRANSIT SATELLITES

TRIAMINO GUANIDINENITRATE  
USE TAGN

TRIAMINOTRINITROBENZENE  
USE TATB

TRIBOLUMINESCENCE  
GS DECAY  
EMISSION  
LIGHT EMISSION  
LUMINESCENCE  
PHOTOLUMINESCENCE  
TRIBOLUMINESCENCE  
RT FLUORESCENCE  
FRICTION  
MECHANICAL PROPERTIES  
PHOTOLUMINESCENT BANDS  
STRESSES  
TRIBOLOGY

TYROSINE  
GS ACIDS  
AMINO ACIDS  
TYROSINE  
ORGANIC COMPOUNDS  
AMINO ACIDS  
TYROSINE  
RT ENZYME ACTIVITY  
LIVER

## U

ULTRALIGHT AIRCRAFT  
RT ∞ AIRCRAFT  
HANG GLIDERS  
LIGHT AIRCRAFT  
∞ WINGED VEHICLES

### • ULYSSES MISSION

UF INTERNATIONAL SOLAR POLAR MISSION  
GS SPACE MISSIONS  
ULYSSES MISSION  
RT INERTIAL UPPER STAGE  
MISSION PLANNING  
∞ MISSIONS  
SOLAR MAXIMUM MISSION  
SOLAR PROBES

UNIFIED FIELD THEORY  
GS FIELD THEORY (PHYSICS)  
UNIFIED FIELD THEORY  
RT EINSTEIN EQUATIONS  
ELECTROMAGNETIC FIELDS  
ELECTROMAGNETIC INTERACTIONS  
ELECTROMAGNETISM  
GRAVITATION THEORY  
GRAVITATIONAL FIELDS  
PARTICLE THEORY  
PLASMA PHYSICS  
RELATIVITY  
THEORETICAL PHYSICS

### UNITED STATES

UF USA (UNITED STATES)  
GS NATIONS  
UNITED STATES  
ALABAMA  
ALASKA  
ARIZONA  
ARKANSAS  
CALIFORNIA  
COLORADO  
CONNECTICUT  
DELAWARE  
FLORIDA  
GEORGIA  
HAWAII  
IDAHO  
ILLINOIS  
INDIANA  
IOWA  
KANSAS  
KENTUCKY  
LOUISIANA  
MAINE  
MARYLAND  
MASSACHUSETTS  
MICHIGAN  
MINNESOTA  
MISSISSIPPI  
MISSOURI

### UNITED STATES-(CONT.)

MONTANA  
NEBRASKA  
NEVADA  
NEW HAMPSHIRE  
NEW JERSEY  
NEW MEXICO  
NEW YORK  
NORTH CAROLINA  
NORTH DAKOTA  
OHIO  
OKLAHOMA  
OREGON  
PENNSYLVANIA  
RHODE ISLAND  
SOUTH CAROLINA  
SOUTH DAKOTA  
TENNESSEE  
TEXAS  
UTAH  
VERMONT  
VIRGINIA  
WASHINGTON  
WEST VIRGINIA  
WISCONSIN  
WYOMING  
RT ALEUTIAN ISLANDS (US)  
CASCADE RANGE (CA-OR-WA)  
CENTRAL ATLANTIC REGION (US)  
DISTRICT OF COLUMBIA  
GREAT LAKES (NORTH AMERICA)  
GREAT PLAINS CORRIDOR (NORTH AMERICA)  
GUAM  
INTERNATIONAL FIELD YEAR FOR  
GREAT LAKES  
INTERNATIONAL HYDROLOGICAL  
DECADE  
MISSOURI RIVER (US)  
NEW ENGLAND (US)  
NORTH AMERICA  
PACIFIC NORTHWEST (US)  
PANAMA CANAL ZONE  
PUERTO RICO  
ROCKY MOUNTAINS (NORTH AMERICA)  
SOUTHERN CALIFORNIA  
VIRGIN ISLANDS

### • UPPER VOLTA

USE BURKINA

### • URANUS SATELLITES

GS CELESTIAL BODIES  
NATURAL SATELLITES  
URANUS SATELLITES  
PLANETS  
GAS GIANT PLANETS  
URANUS (PLANET)  
URANUS SATELLITES

### US-2A AIRCRAFT

USE S-2 AIRCRAFT

## V

### • VAX COMPUTERS

GS DATA PROCESSING EQUIPMENT  
COMPUTERS  
DIGITAL COMPUTERS  
VAX COMPUTERS  
VAX-11 SERIES COMPUTERS  
VAX-11/780 COMPUTER

### VCO

USE VOLTAGE CONTROLLED OSCILLATORS

### • VEGA PROJECT

RT FLYBY MISSIONS  
HALLEY'S COMET  
INTERNATIONAL COOPERATION  
U.S.S.R. SPACE PROGRAM  
VENERA SATELLITES  
VENUS (PLANET)

### VEGETATIVE INDEX

RT AGRISTARS PROJECT  
ATMOSPHERIC ATTENUATION  
ATMOSPHERIC EFFECTS  
ATMOSPHERIC OPTICS  
ATMOSPHERIC SCATTERING

### VEGETATIVE INDEX-(CONT.)

CANOPIES (VEGETATION)  
COLOR  
CORRECTION  
CROP IDENTIFICATION  
CROP INVENTORIES  
IMAGE ENHANCEMENT  
IMAGING TECHNIQUES  
MULTISPECTRAL BAND SCANNERS  
RADIOMETRIC CORRECTION  
REFLECTANCE  
REMOTE SENSING  
SATELLITE IMAGERY  
SATELLITE OBSERVATION  
SPECTRAL REFLECTANCE  
VEGETATION GROWTH

### VERTICAL ATTITUDE TAKEOFF-LANDING

#### AIRCRAFT

USE VATOL AIRCRAFT

### VERY LARGE SCALE INTEGRATION

UF VLSI  
GS CIRCUITS  
INTEGRATED CIRCUITS  
VERY LARGE SCALE INTEGRATION  
RT ARCHITECTURE (COMPUTERS)  
CHIPS (ELECTRONICS)  
LARGE SCALE INTEGRATION

### VIDEO SIGNALS

RT SIGNAL PROCESSING  
SIGNAL TRANSMISSION  
∞ SIGNALS  
VIDEO COMMUNICATION  
VIDEO DATA

### • VIRIAL COEFFICIENTS

GS COEFFICIENTS  
VIRIAL COEFFICIENTS  
RT EQUATIONS OF STATE  
INTERMOLECULAR FORCES  
VIRIAL THEOREM

### VIRTUAL MEMORY SYSTEMS

RT COMPUTER SYSTEMS DESIGN  
DATA MANAGEMENT  
DATA STORAGE  
MAGNETIC STORAGE

### VLSI

USE VERY LARGE SCALE INTEGRATION

### VOLTAGE CONTROLLED OSCILLATORS

UF VCO  
GS OSCILLATORS  
VOLTAGE CONTROLLED  
OSCILLATORS  
RT CIRCUITS  
ELECTRIC CONTROL  
ELECTRIC NETWORKS  
FREQUENCY MODULATION  
FREQUENCY STABILITY  
MICROWAVE OSCILLATORS  
VOLTAGE REGULATORS

### VORTEX PRECESSION

RT FLOW VELOCITY  
FLOWMETERS  
PRECESSION  
VELOCITY MEASUREMENT  
VORTICES

## W

### WASTE HEAT

RT ENERGY TECHNOLOGY  
HEAT EXCHANGERS  
HEAT PUMPS  
WASTE ENERGY UTILIZATION

### WEST PAKISTAN

USE PAKISTAN

### WESTERN HEMISPHERE

RT EARTH (PLANET)  
EASTERN HEMISPHERE  
GEOGRAPHY

### WHIRL TOWERS

RT HELICOPTER DESIGN

**WHIRL TOWERS-(CONT.)**

HOVERING  
HOVERING STABILITY  
PARACHUTES  
ROTARY WINGS  
ROTOR AERODYNAMICS  
SPIN TESTS

**WOLFRAM**

USE TUNGSTEN

**X**

**X RAY TIMING EXPLORER**

GS SATELLITES  
ARTIFICIAL SATELLITES  
EXPLORER SATELLITES  
**X RAY TIMING EXPLORER**  
EARTH SATELLITES  
EXPLORER SATELLITES  
**X RAY TIMING EXPLORER**

**XENON CHLORIDE LASERS**

GS STIMULATED EMISSION DEVICES  
LASERS  
GAS LASERS  
**XENON CHLORIDE LASERS**  
RARE GAS-HALIDE LASERS  
**XENON CHLORIDE LASERS**  
RT ELECTRON TRANSITIONS  
EXCIMER LASERS  
LASER MATERIALS  
LASER OUTPUTS  
ULTRAVIOLET LASERS

**Y**

**• YUKON TERRITORY**

GS NATIONS  
CANADA  
**YUKON TERRITORY**

# NASA THESAURUS SUPPLEMENT

## PART 2 ACCESS VOCABULARY

### A

**A, SIR-**  
USE SHUTTLE IMAGING RADAR

**A, Space Shuttle Mission 31-**  
USE SPACE SHUTTLE MISSION 31-A

**A, Space Shuttle Mission 41-**  
USE SPACE SHUTTLE MISSION 41-A

**A, Space Shuttle Mission 51-**  
USE SPACE SHUTTLE MISSION 51-A

**A-310 AIRCRAFT**

**A-320 AIRCRAFT**

**Access, Demand Assignment Multiple**  
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

**ACCOUNTING**

**ACCRETION DISKS**

**Accuracy, Geodetic**  
USE GEODETIC ACCURACY

**Accuracy, Geometric**  
USE GEOMETRIC ACCURACY

**ACEE PROGRAM**

**Acid, Nitrous**  
USE NITROUS ACID

**Activity, Stellar**  
USE STELLAR ACTIVITY

**ADA (PROGRAMMING LANGUAGE)**

**Adenosine Monophosphate, Cyclic**  
USE CYCLIC AMP

**AEROASSIST**

**AEROBRAKING**

**AEROCAPTURE**

**Aerodynamic And Struct Test, Drones For**  
USE DAST PROGRAM

**Aerodynamics, Interactional**  
USE INTERACTIONAL AERODYNAMICS

**AEROELASTIC RESEARCH WINGS**

**AEROMAGNETISM**

**AEROMANEUVERING**

**AGROPHYSICAL UNITS**

**Aided Design, Computer**  
USE COMPUTER AIDED DESIGN

**Aided Manufacturing, Computer**  
USE COMPUTER AIDED MANUFACTURING

**Aided Mapping, Computer**  
USE COMPUTER AIDED MAPPING

**Air Pollution, Indoor**  
USE INDOOR AIR POLLUTION

**AIR START**

**AIRBORNE LASERS**

**Aircraft, A-310**  
USE A-310 AIRCRAFT

**Aircraft, A-320**  
USE A-320 AIRCRAFT

**Aircraft, AV-8B**  
USE HARRIER AIRCRAFT

**Aircraft, Chinese**  
USE CHINESE AIRCRAFT

**Aircraft, Electric**  
USE FLY BY WIRE CONTROL

**Aircraft Energy Efficiency Program**  
USE ACEE PROGRAM

**Aircraft, Highly Maneuverable**  
USE HIGHLY MANEUVERABLE AIRCRAFT

**AIRCRAFT POWER SUPPLIES**

**Aircraft, Ultralight**  
USE ULTRALIGHT AIRCRAFT

**Aircraft, US-2A**  
USE S-2 AIRCRAFT

**Aircraft, Vertical Attitude Takeoff-Landing**  
USE VATOL AIRCRAFT

**Airfoils, Supercritical**  
USE SUPERCRITICAL AIRFOILS

**ALBERTA**

**Alcock Comet, Iras-Araki-**  
USE IRAS-ARAKI-ALCOCK COMET

**ALLENDE METEORITE**

**Amp, Cyclic**  
USE CYCLIC AMP

**AMPHITRITE ASTEROID**

**Analysis, Cluster**  
USE CLUSTER ANALYSIS

**Analysis, Data Flow**  
USE DATA FLOW ANALYSIS

**Analysis, Gas Path**  
USE GAS PATH ANALYSIS

**Analysis, Image**  
USE IMAGE ANALYSIS

**Analysis, Multitemporal**  
USE TEMPORAL RESOLUTION

**Analysis, Principal Components**  
USE PRINCIPAL COMPONENTS ANALYSIS

**Analysis, Thermal**  
USE THERMAL ANALYSIS

**ANIK SATELLITES**

**Anode Microchannel Arrays, Multi-**  
USE MULTI-ANODE MICROCHANNEL ARRAYS

**Anodes, Shell**  
USE SHELL ANODES

**Anomalies, Geothermal**  
USE GEOTHERMAL ANOMALIES

**Antennas, Multibeam**  
USE MULTIBEAM ANTENNAS

**Antennas, Plasma**  
USE PLASMA ANTENNAS

**Antistatic Devices**  
USE STATIC DISCHARGERS

**APES**

**APL (PROGRAMMING LANGUAGE)**

**Applications, Microgravity**  
USE MICROGRAVITY APPLICATIONS

**Applications, Multisensor**  
USE MULTISENSOR APPLICATIONS

**ARABSAT**

**Araki-Alcock Comet, Iras-**  
USE IRAS-ARAKI-ALCOCK COMET

**ARC CLOUDS**

**ARIES SOUNDING ROCKET**

**Arrays, Multi-Anode Microchannel**  
USE MULTI-ANODE MICROCHANNEL ARRAYS

**Arrest, Crack**  
USE CRACK ARREST

**Assignment Multiple Access, Demand**  
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

**Asteroid, Amphitrite**  
USE AMPHITRITE ASTEROID

**Astromasts**  
USE LONGERONS

**ASTRONOMICAL SATELLITES**

**(Astronomy), Local Group**  
USE LOCAL GROUP (ASTRONOMY)

**Astrophysics, Computational**  
USE COMPUTATIONAL ASTROPHYSICS

**ASYMPTOTIC PROPERTIES**

**ATLANTIS (ORBITER)**

**Atmosphere, Lunar**  
USE LUNAR ATMOSPHERE

**Atmospheres, Neutral**  
USE NEUTRAL ATMOSPHERES

**ATMOSPHERIC CORRECTION**

**Atmospheric Loading**  
USE POLLUTION TRANSPORT

**ATOMIC INTERACTIONS**

**Attitude Takeoff-Landing Aircraft, Vertical**  
USE VATOL AIRCRAFT

## Attractors, Strange

Attractors, Strange  
USE STRANGE ATTRACTORS

## AUDIO DATA

## AUDIO SIGNALS

## AUTOMATED TRANSIT VEHICLES

## AUTUMN

AV-8B Aircraft  
USE HARRIER AIRCRAFT

## AWARDS

# B

B, Gravity Probe  
USE GRAVITY PROBE B

B Satellite, Magsat  
USE MAGSAT B SATELLITE

B, SIR-  
USE SHUTTLE IMAGING RADAR

B, Space Shuttle Mission 31-  
USE SPACE SHUTTLE MISSION 31-B

B, Space Shuttle Mission 41-  
USE SPACE SHUTTLE MISSION 41-B

B, Space Shuttle Mission 51-  
USE SPACE SHUTTLE MISSION 51-B

Backscatter UV Spectrometer, Solar  
USE SOLAR BACKSCATTER UV  
SPECTROMETER

## BACKWARD DIFFERENCING

## BACKWARD FACING STEPS

## BAHAMAS

## BALLOONING MODES

## BAND RATIOING

Bandgap  
USE ENERGY GAPS (SOLID STATE)

## BANDSTOP FILTERS

## BARYON RESONANCE

Bases, Numerical Data  
USE NUMERICAL DATA BASES

Batteries, Nickel Iron  
USE NICKEL IRON BATTERIES

Bearings, Magnetic  
USE MAGNETIC BEARINGS

Benard Convection, Rayleigh-  
USE RAYLEIGH-BENARD CONVECTION

## BENIN

Beta Interactions  
USE WEAK INTERACTIONS (FIELD THEORY)

Bioclimatology  
USE BIOMETEOROLOGY

## BIOFEEDBACK

(Biology), Desynchronization  
USE DESYNCHRONIZATION (BIOLOGY)

## BIOMETEOROLOGY

## BIOPROCESSING

Biosphere Program, International Geosphere-  
USE INTERNATIONAL GEOSPHERE-BIOSPHERE  
PROGRAM

## BIOT NUMBER

Biphenyls, Polybrominated  
USE POLYBROMINATED BIPHENYLS

Bistability, Optical  
USE OPTICAL BISTABILITY

## BIT ERROR RATE

## BLINKING

Body Interactions, Rotor  
USE ROTOR BODY INTERACTIONS

Borazon (Trademark)  
USE BORON NITRIDES

Braking, Aero  
USE AEROBRAKING

## BRAZILIAN SPACE PROGRAM

## BRITISH COLUMBIA

Bruceton Test  
USE STATISTICAL TESTS

Brunswick, New  
USE NEW BRUNSWICK

## BRUNT-VAISALA FREQUENCY

Bubbles, Plasma  
USE PLASMA BUBBLES

## BURKINA

## BURN-IN

Burning, Hole  
USE HOLE BURNING

## BURST TESTS

Business Management  
USE INDUSTRIAL MANAGEMENT

# C

C, Space Shuttle Mission 31-  
USE SPACE SHUTTLE MISSION 31-C

C, Space Shuttle Mission 41-  
USE SPACE SHUTTLE MISSION 41-C

C, Space Shuttle Mission 51-  
USE SPACE SHUTTLE MISSION 51-C

CAD (Design)  
USE COMPUTER AIDED DESIGN

CAM (Manufacturing)  
USE COMPUTER AIDED MANUFACTURING

Cambodia  
USE KAMPUCHEA

## CANADIAN SPACECRAFT

Cardiology, Radio  
USE RADIOCARDIOGRAPHY

## CARIBBEAN REGION

Carrier, European Retrievable  
USE EURECA (ESA)

Carrington Rotation  
USE SOLAR ROTATION

Casting, Sand  
USE SAND CASTING

## NASA THESAURUS SUPPLEMENT (PART 2)

## CATAclysmic Variables

## CAVITONS

## CDC CYBER 205 COMPUTER

Center (NASA), Space Operations  
USE SPACE OPERATIONS CENTER (NASA)

## CERAMIC MATRIX COMPOSITES

## CEREBRAL VENTRICLES

## CHALLENGER (ORBITER)

## CHANGE DETECTION

## CHAOS

Characteristics, Static  
USE STATIC CHARACTERISTICS

## CHARGE INJECTION DEVICES

Chemistry, Computational  
USE COMPUTATIONAL CHEMISTRY

## CHINESE AIRCRAFT

Chloride Lasers, Xenon  
USE XENON CHLORIDE LASERS

Chromatography, Gel Permeation  
USE LIQUID CHROMATOGRAPHY

CID  
USE CHARGE INJECTION DEVICES

Circuit Currents, Short  
USE SHORT CIRCUIT CURRENTS

## CIRCULAR WAVEGUIDES

## CIRCULATION DISTRIBUTION

City (NY), New York  
USE NEW YORK CITY (NY)

Clouds, Arc  
USE ARC CLOUDS

Clouds, Ophiuchi  
USE OPHIUCHI CLOUDS

## CLUSTER ANALYSIS

Coatings, Solar Selective  
USE SELECTIVE SURFACES

Coefficients, Drag  
USE DRAG COEFFICIENTS

Coefficients, Virial  
USE VIRIAL COEFFICIENTS

Color, Stellar  
USE STELLAR COLOR

Columbia, British  
USE BRITISH COLUMBIA

## COLUMBIA (ORBITER)

Comet, Encke  
USE ENCKE COMET

Comet, Iras-Araki-Alcock  
USE IRAS-ARAKI-ALCOCK COMET

## COMMAND LANGUAGES

## COMMERCIAL SPACECRAFT

Commercialization, Space  
USE SPACE COMMERCIALIZATION

## COMMONALITY

Communication, Ship To Shore  
USE SHIP TO SHORE COMMUNICATION



**Communication Systems, Mobile**  
USE MOBILE COMMUNICATION SYSTEMS

**Components Analysis, Principal**  
USE PRINCIPAL COMPONENTS ANALYSIS

**Composites, Ceramic Matrix**  
USE CERAMIC MATRIX COMPOSITES

**Composition, Stellar**  
USE STELLAR COMPOSITION

**COMPULSATORS****COMPUTATIONAL ASTROPHYSICS****COMPUTATIONAL CHEMISTRY****COMPUTATIONAL GRIDS****COMPUTER AIDED DESIGN****COMPUTER AIDED MANUFACTURING****COMPUTER AIDED MAPPING**

**Computer, CDC Cyber 205**  
USE CDC CYBER 205 COMPUTER

**Computer Systems, Embedded**  
USE EMBEDDED COMPUTER SYSTEMS

**Computerized Design**  
USE COMPUTER AIDED DESIGN

**Computers, Cray**  
USE CRAY COMPUTERS

**(Computers), Memory**  
USE MEMORY (COMPUTERS)

**Computers, Micro**  
USE MICROCOMPUTERS

**Computers, Nova**  
USE NOVA COMPUTERS

**Computers, Optical**  
USE OPTICAL COMPUTERS

**Computers, Personal**  
USE PERSONAL COMPUTERS

**(Computers), Protocol**  
USE PROTOCOL (COMPUTERS)

**Computers, Super**  
USE SUPERCOMPUTERS

**Computers, VAX**  
USE VAX COMPUTERS

**CONCURRENT PROCESSING****CONDENSATION NUCLEI****CONDENSERS (LIQUEFIERS)****CONJUGATE GRADIENT METHOD**

**Constellation, Lyra**  
USE LYRA CONSTELLATION

**Continental Margins**  
USE CONTINENTAL SHELVES

**CONTINUUM MODELING****CONTROL SYSTEMS DESIGN**

**Controlled Oscillators, Voltage**  
USE VOLTAGE CONTROLLED OSCILLATORS

**Controllers, Power Factor**  
USE POWER FACTOR CONTROLLERS

**Convection, Marangoni**  
USE MARANGONI CONVECTION

**Convection, Rayleigh-Benard**  
USE RAYLEIGH-BENARD CONVECTION

**Coolant Loss**  
USE LOSS OF COOLANT

**Coolant, Loss Of**  
USE LOSS OF COOLANT

**Coordinates, Cylindrical**  
USE CARTESIAN COORDINATES

**Cores, Stellar**  
USE STELLAR CORES

**COROTATION**

**Correction, Atmospheric**  
USE ATMOSPHERIC CORRECTION

**Cosmic Rays, Galactic**  
USE GALACTIC COSMIC RAYS

**COSMOS 954 SATELLITE****COSPAS**

**Couplers, Directional**  
USE DIRECTIONAL COUPLERS

**Coupling, Mode**  
USE COUPLED MODES

**CRACK ARREST****CRACK TIPS****CRANK-NICHOLSON METHOD**

**Cranked Wings**  
USE SWEPT WINGS

**CRAY COMPUTERS****CRIME**

**Currents, Short Circuit**  
USE SHORT CIRCUIT CURRENTS

**Cusps, Polar**  
USE POLAR CUSPS

**Cyber 205 Computer, CDC**  
USE CDC CYBER 205 COMPUTER

**Cycle Engines, Topping**  
USE TOPPING CYCLE ENGINES

**Cyclic Adenosine Monophosphate**  
USE CYCLIC AMP

**CYCLIC AMP**

**Cylindrical Coordinates**  
USE CARTESIAN COORDINATES

**D**

**D, Space Shuttle Mission 31-**  
USE SPACE SHUTTLE MISSION 31-D

**D, Space Shuttle Mission 41-**  
USE SPACE SHUTTLE MISSION 41-D

**D, Space Shuttle Mission 51-**  
USE SPACE SHUTTLE MISSION 51-D

**Dahomey**  
USE BENIN

**DAMA**  
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

**DAST PROGRAM**

**Data, Audio**  
USE AUDIO DATA

**Data Bases, Numerical**  
USE NUMERICAL DATA BASES

**DATA FLOW ANALYSIS****DATA INTEGRATION**

**(Data Processing), Frames**  
USE FRAMES (DATA PROCESSING)

**DATA SIMULATION****DATA STRUCTURES**

**Defense Meteorological Satellite Program**  
USE DMSP SATELLITES

**DEMAND ASSIGNMENT MULTIPLE ACCESS**

**Depth, Mixing**  
USE MIXING HEIGHT

**Derived Vehicles, Shuttle**  
USE SHUTTLE DERIVED VEHICLES

**DESERTIFICATION**

**(Design), CAD**  
USE COMPUTER AIDED DESIGN

**Design, Computer Aided**  
USE COMPUTER AIDED DESIGN

**Design, Control Systems**  
USE CONTROL SYSTEMS DESIGN

**Design, Experiment**  
USE EXPERIMENT DESIGN

**DESYNCHRONIZATION (BIOLOGY)**

**Detection, Change**  
USE CHANGE DETECTION

**Devices, Antistatic**  
USE STATIC DISCHARGERS

**Devices, Charge Injection**  
USE CHARGE INJECTION DEVICES

**Diagram, HR**  
USE HERTZSPRUNG-RUSSELL DIAGRAM

**DIDYMIUM**

**Differencing, Backward**  
USE BACKWARD DIFFERENCING

**DIFFERENTIAL ANALYZERS**

**Differential Thermal Analysis**  
USE THERMAL ANALYSIS

**Diffusion, Gas**  
USE GASEOUS DIFFUSION

**Dikes (Geology)**  
USE ROCK INTRUSIONS

**DINING PHILOSOPHERS PROBLEM****DIRECTION FINDING****DIRECTIONAL COUPLERS****DIRECTORIES****DISCOVERY (ORBITER)**

**Disks, Accretion**  
USE ACCRETION DISKS

**Disks, Optical**  
USE OPTICAL DISKS

**Disposal (In Space), Hazardous Material**  
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

**DISTRIBUTED PROCESSING**

**Distribution, Circulation**  
USE CIRCULATION DISTRIBUTION

## DMSP SATELLITES

### DMSP SATELLITES

Doppler Positioning, Satellite  
USE SATELLITE DOPPLER POSITIONING

Double Stars  
USE BINARY STARS

### DRAW COEFFICIENTS

### DREDGING

Drones For Aerodynamic And Struct Test  
USE DAST PROGRAM

### DWARF GALAXIES

Dwarf Stars, Red  
USE RED DWARF STARS

### DYNAMICAL SYSTEMS

Dynamics, Solar  
USE HELIOSEISMOLOGY

## E

E, NOAA  
USE NOAA 8 SATELLITE

E, Space Shuttle Mission 51-  
USE SPACE SHUTTLE MISSION 51-E

Earth Neighborhood, Origin Of Plasmas In  
USE OPEN PROJECT

### EARTHNET

### EASTERN HEMISPHERE

Edward Island, Prince  
USE PRINCE EDWARD ISLAND

Efficiency Program, Aircraft Energy  
USE ACEE PROGRAM

Efficiency Transport Program, Energy  
USE ACEE PROGRAM

Einstein Observatory  
USE HEAO 2

### EL NINO

Electric Aircraft  
USE FLY BY WIRE CONTROL

### ELECTRIC FURNACES

Electric Power Plants, Solar Thermal  
USE SOLAR THERMAL ELECTRIC POWER PLANTS

### ELECTROCHROMISM

Electroconductivity  
USE ELECTRICAL RESISTIVITY

### ELECTRODE MATERIALS

### ELECTRONIC MAIL

Electronics, Quantum  
USE QUANTUM ELECTRONICS

Electrons, Nonrelativistic  
USE ELECTRONS

### EMBEDDED COMPUTER SYSTEMS

Empennage  
USE TAIL ASSEMBLIES

### ENCKE COMET

Energy Efficiency Program, Aircraft  
USE ACEE PROGRAM

Energy Efficiency Transport Program  
USE ACEE PROGRAM

Energy Storage, Magnetic  
USE MAGNETIC ENERGY STORAGE

Engineering, Knowledge  
USE EXPERT SYSTEMS

Engineering, Software  
USE SOFTWARE ENGINEERING

Engines, Rotary  
USE ROTARY ENGINES

Engines, Topping Cycle  
USE TOPPING CYCLE ENGINES

Enstrophy  
USE VORTICITY

### ENTERPRISE (ORBITER)

Equipment, Spacecraft  
USE SPACECRAFT EQUIPMENT

Error Rate, Bit  
USE BIT ERROR RATE

(ESA), Eureka  
USE EURECA (ESA)

### EURECA (ESA)

European Large Telecomm Satellite  
USE L-SAT

European Retrievable Carrier  
USE EURECA (ESA)

Exercise  
USE PHYSICAL EXERCISE

Exper, Feature Identification And Location  
USE FEATURE IDENTIFICATION AND LOCATION  
EXPER

### EXPERIMENT DESIGN

### EXPERT SYSTEMS

Explorer, Far UV Spectroscopic  
USE FAR UV SPECTROSCOPIC EXPLORER

Explorer, X Ray Timing  
USE X RAY TIMING EXPLORER

Explorer 42 Satellite  
USE UHURU SATELLITE

### EXPLORER 44 SATELLITE

### EXPLORER 46 SATELLITE

Extraction, Feature  
USE PATTERN RECOGNITION

## F

F, Space Shuttle Mission 51-  
USE SPACE SHUTTLE MISSION 51-F

Facility, Space Infrared Telescope  
USE SPACE INFRARED TELESCOPE FACILITY

Facing Steps, Backward  
USE BACKWARD FACING STEPS

Facing Steps, Rearward  
USE BACKWARD FACING STEPS

Factor Controllers, Power  
USE POWER FACTOR CONTROLLERS

### FAR UV SPECTROSCOPIC EXPLORER

### FASTING

## NASA THESAURUS SUPPLEMENT (PART 2)

Fatigue, Sonic  
USE ACOUSTIC FATIGUE

Fauna  
USE ANIMALS

Feature Extraction  
USE PATTERN RECOGNITION

### FEATURE IDENTIFICATION AND LOCATION EXPER

Feedback, Bio  
USE BIOFEEDBACK

Field Theory, Unified  
USE UNIFIED FIELD THEORY

Filters, Bandstop  
USE BANDSTOP FILTERS

Finding, Direction  
USE DIRECTION FINDING

Fire Retardants  
USE FLAME RETARDANTS

### FIRMWARE

### FISCHER-TROPSCH PROCESS

Fixation, Nitrogen  
USE NITROGENATION

Fixing And Ranging, Sound  
USE SOUND FIXING AND RANGING

### FLAPERONS

### FLAVOR (PARTICLE PHYSICS)

### FLIGHT MANAGEMENT SYSTEMS

### FLOAT ZONES

Flow Analysis, Data  
USE DATA FLOW ANALYSIS

Flow, Grazing  
USE GRAZING FLOW

### FLUID MANAGEMENT

### FLUID-SOLID INTERACTIONS

Fluoroplastics  
USE FLUOROPOLYMERS

### FORMYL IONS

### FRACTALS

### FRAMES (DATA PROCESSING)

Frequency, Brunt-Vaisala  
USE BRUNT-VAISALA FREQUENCY

Functions, Green's  
USE GREEN'S FUNCTIONS

Furnaces, Electric  
USE ELECTRIC FURNACES

## G

G, Space Shuttle Mission 41-  
USE SPACE SHUTTLE MISSION 41-G

G, Space Shuttle Mission 51-  
USE SPACE SHUTTLE MISSION 51-G

### GALACTIC COSMIC RAYS

Galaxies, Dwarf  
USE DWARF GALAXIES

Gas Diffusion  
USE GASEOUS DIFFUSION

## GAS PATH ANALYSIS

Gel Permeation Chromatography  
USE LIQUID CHROMATOGRAPHY

## GEODETTIC ACCURACY

## GEOGRAPHIC INFORMATION SYSTEMS

(Geology), Dikes  
USE ROCK INTRUSIONS

## GEOMETRIC ACCURACY

Geosphere-Biosphere Program, International  
USE INTERNATIONAL GEOSPHERE-BIOSPHERE PROGRAM

## GEOTHERMAL ANOMALIES

## GIOTTO MISSION

## GOERTLER INSTABILITY

Goertler Instability, Taylor-  
USE GOERTLER INSTABILITY

Gradient Method, Conjugate  
USE CONJUGATE GRADIENT METHOD

## GRAIN SIZE

Gravimetry, Thermal  
USE THERMOGRAVIMETRY

## GRAVITATIONAL PHYSIOLOGY

## GRAVITINOS

## GRAVITY PROBE B

## GRAY SCALE

## GRAZING FLOW

## GREEN'S FUNCTIONS

Grids, Computational  
USE COMPUTATIONAL GRIDS

Grids (Mathematics)  
USE COMPUTATIONAL GRIDS

## GROUND RESONANCE

Group (Astronomy), Local  
USE LOCAL GROUP (ASTRONOMY)

## GYRES

## H

H, Space Shuttle Mission 51-  
USE SPACE SHUTTLE MISSION 51-H

Habitats, Space  
USE SPACE HABITATS

## HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

## HEAT TAPES

Heat, Waste  
USE WASTE HEAT

Height, Mixing  
USE MIXING HEIGHT

## HELIOSEISMOLOGY

Hemisphere, Eastern  
USE EASTERN HEMISPHERE

Hemisphere, Western  
USE WESTERN HEMISPHERE

## HIGH REYNOLDS NUMBER

## HIGH SPEED PHOTOGRAPHY

## HIGHLY MANEUVERABLE AIRCRAFT

HIMAT  
USE HIGHLY MANEUVERABLE AIRCRAFT

## HIPPARCOS SATELLITE

## HOLE BURNING

HR Diagram  
USE HERTZSPRUNG-RUSSELL DIAGRAM

## HUBBLE SPACE TELESCOPE

## HUMAN RELATIONS

I, Space Shuttle Mission 51-  
USE SPACE SHUTTLE MISSION 51-I

Identification And Location Exper, Feature  
USE FEATURE IDENTIFICATION AND LOCATION EXPER

IGFET  
USE FIELD EFFECT TRANSISTORS

## IMAGE ANALYSIS

Imagery, Satellite  
USE SATELLITE IMAGERY

## IMAGING RADAR

Imaging Radar, Shuttle  
USE SHUTTLE IMAGING RADAR

Imaging Scope, Low Intensity X Ray  
USE LIXISCOPES

In, Burn-  
USE BURN-IN

In Earth Neighborhood, Origin Of Plasmas  
USE OPEN PROJECT

(In Space), Hazardous Material Disposal  
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

Index, Vegetative  
USE VEGETATIVE INDEX

(Indian Spacecraft), IRS  
USE INDIAN SPACECRAFT

(Indian Spacecraft), SEO  
USE INDIAN SPACECRAFT

## INDOOR AIR POLLUTION

Information Systems, Geographic  
USE GEOGRAPHIC INFORMATION SYSTEMS

## INFORMATION TRANSFER

## INFRARED SIGNATURES

Infrared Telescope Facility, Space  
USE SPACE INFRARED TELESCOPE FACILITY

Ingestion, Spray  
USE SPRAY INGESTION

Injection Devices, Charge  
USE CHARGE INJECTION DEVICES

INSAT Satellites  
USE INDIAN SPACECRAFT

Instability, Goertler  
USE GOERTLER INSTABILITY

Instability, Taylor-Goertler  
USE GOERTLER INSTABILITY

## INTEGRAL ROCKET RAMJETS

## INTEGRALS

## INTEGRATED LIBRARY SYSTEMS

Integration, Data  
USE DATA INTEGRATION

Integration, Very Large Scale  
USE VERY LARGE SCALE INTEGRATION

Intensity X Ray Imaging Scope, Low  
USE LIXISCOPES

## INTERACTIONAL AERODYNAMICS

Interactions, Atomic  
USE ATOMIC INTERACTIONS

Interactions, Beta  
USE WEAK INTERACTIONS (FIELD THEORY)

Interactions, Fluid-Solid  
USE FLUID-SOLID INTERACTIONS

Interactions, Rotor Body  
USE ROTOR BODY INTERACTIONS

Interactions, Solar Planetary  
USE SOLAR PLANETARY INTERACTIONS

Interactions, Surface Noise  
USE SURFACE NOISE INTERACTIONS

## INTERDIGITAL TRANSDUCERS

## INTERNATIONAL GEOSPHERE-BIOSPHERE PROGRAM

International Solar Polar Mission  
USE ULYSSES MISSION

Interpersonal Relations  
USE HUMAN RELATIONS

Ion Spectrometers  
USE MASS SPECTROMETERS

## IONOPAUSE

Ions, Formyl  
USE FORMYL IONS

## IRAS-ARAKI-ALCOCK COMET

Iron Batteries, Nickel  
USE NICKEL IRON BATTERIES

IRS (Indian Spacecraft)  
USE INDIAN SPACECRAFT

Island, Prince Edward  
USE PRINCE EDWARD ISLAND

## J

J, Space Shuttle Mission 51-  
USE SPACE SHUTTLE MISSION 51-J

## JAPANESE SPACECRAFT

(Japanese Spacecraft), MOS  
USE JAPANESE SPACECRAFT

Jets, Particle Laden  
USE PARTICLE LADEN JETS

Jones Potential, Lennard-  
USE LENNARD-JONES POTENTIAL

## JUPITER SATELLITES

**K-Mesons****K**

**K-Mesons**  
USE KAONS

**KAMPUCHEA**

**Knowledge Engineering**  
USE EXPERT SYSTEMS

**L**

**L, Space Shuttle Mission 51-**  
USE SPACE SHUTTLE MISSION 51-L

**L-SAT**

**Laden Jets, Particle**  
USE PARTICLE LADEN JETS

**LANDSAT 4**

**LANDSAT 5**

**Language), Ada (Programming**  
USE ADA (PROGRAMMING LANGUAGE)

**Language), APL (Programming**  
USE APL (PROGRAMMING LANGUAGE)

**Languages, Command**  
USE COMMAND LANGUAGES

**Languages, Query**  
USE QUERY LANGUAGES

**Large Scale Integration, Very**  
USE VERY LARGE SCALE INTEGRATION

**Large Space Telescope**  
USE HUBBLE SPACE TELESCOPE

**Large Telecomm Satellite, European**  
USE L-SAT

**Lasers, Airborne**  
USE AIRBORNE LASERS

**Lasers, Solar**  
USE SOLAR-PUMPED LASERS

**Lasers, Solar-Pumped**  
USE SOLAR-PUMPED LASERS

**Lasers, Spaceborne**  
USE SPACEBORNE LASERS

**Lasers, Xenon Chloride**  
USE XENON CHLORIDE LASERS

**LENNARD-JONES POTENTIAL**

**LES (Satellites)**  
USE LINCOLN EXPERIMENTAL SATELLITES

**LEVITATION MELTING**

**Library Systems, Integrated**  
USE INTEGRATED LIBRARY SYSTEMS

**LIGHT VALVES**

**(Liquefiers), Condensers**  
USE CONDENSERS (LIQUEFIERS)

**Liquid Plus Solid Zones**  
USE MUSHY ZONES

**Loading, Atmospheric**  
USE POLLUTION TRANSPORT

**LOCAL GROUP (ASTRONOMY)**

**Location Exper, Feature Identification And**  
USE FEATURE IDENTIFICATION AND LOCATION  
EXPER

**LOGIC PROGRAMMING**

**Loss, Coolant**  
USE LOSS OF COOLANT

**LOSS OF COOLANT**

**Loss, Power**  
USE POWER LOSS

**Low Intensity X Ray Imaging Scope**  
USE LIXISCOPIES

**LOW REYNOLDS NUMBER**

**Luminescence, Tribo**  
USE TRIBOLUMINESCENCE

**LUNAR ATMOSPHERE**

**LYRA CONSTELLATION**

**M**

**Madagascar**  
USE MALAGASY REPUBLIC

**MAGELLAN MISSION**

**MAGNETIC BEARINGS**

**MAGNETIC ENERGY STORAGE**

**Magnetic Susceptibility**  
USE MAGNETIC PERMEABILITY

**MAGSAT B SATELLITE**

**Mail, Electronic**  
USE ELECTRONIC MAIL

**Main Sequence Stars, Pre-**  
USE PRE-MAIN SEQUENCE STARS

**Maintenance, Spacecraft**  
USE SPACECRAFT MAINTENANCE

**Management, Business**  
USE INDUSTRIAL MANAGEMENT

**Management, Fluid**  
USE FLUID MANAGEMENT

**Management Systems, Flight**  
USE FLIGHT MANAGEMENT SYSTEMS

**Maneuverable Aircraft, Highly**  
USE HIGHLY MANEUVERABLE AIRCRAFT

**Maneuvering, Aero**  
USE AEROMANEUVERING

**Maneuvering System, Teleoperator**  
USE TELEOPERATORS

**Maneuvering Units, Manned**  
USE MANNED MANEUVERING UNITS

**Maneuvering Vehicles, Orbital**  
USE ORBITAL MANEUVERING VEHICLES

**MANNED MANEUVERING UNITS**

**(Manufacturing), CAM**  
USE COMPUTER AIDED MANUFACTURING

**Manufacturing, Computer Aided**  
USE COMPUTER AIDED MANUFACTURING

**Mapping, Computer Aided**  
USE COMPUTER AIDED MAPPING

**MAPSAT**

**MARANGONI CONVECTION**

**MARECS MARITIME SATELLITES**

**Margins, Continental**  
USE CONTINENTAL SHELVES

**NASA THESAURUS SUPPLEMENT (PART 2)**

**MARINER MARK 2 SPACECRAFT**

**Maritime Satellites, Marecs**  
USE MARECS MARITIME SATELLITES

**Mark 2 Spacecraft, Mariner**  
USE MARINER MARK 2 SPACECRAFT

**MARS 7 SPACECRAFT**

**Material Disposal (In Space), Hazardous**  
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

**Materials, Electrode**  
USE ELECTRODE MATERIALS

**Materials, Strategic**  
USE STRATEGIC MATERIALS

**(Mathematics), Grids**  
USE COMPUTATIONAL GRIDS

**(Mathematics), Mesh**  
USE COMPUTATIONAL GRIDS

**Matrix Composites, Ceramic**  
USE CERAMIC MATRIX COMPOSITES

**Measurement, Strain**  
USE STRAIN MEASUREMENT

**Mechanics, Mega**  
USE MEGAMECHANICS

**Mechanics, Micro**  
USE MICROMECHANICS

**Medicine, Nuclear**  
USE NUCLEAR MEDICINE

**MEGAMECHANICS**

**Melting, Levitation**  
USE LEVITATION MELTING

**MEMORY (COMPUTERS)**

**Memory Systems, Virtual**  
USE VIRTUAL MEMORY SYSTEMS

**Mesfets**  
USE FIELD EFFECT TRANSISTORS

**Mesh (Mathematics)**  
USE COMPUTATIONAL GRIDS

**MESON RESONANCE**

**METAL NITRIDES**

**METALLICITY**

**Meteorite, Allende**  
USE ALLENDE METEORITE

**Meteorite, Murchison**  
USE MURCHISON METEORITE

**Meteoroid Technology Satellite**  
USE EXPLORER 46 SATELLITE

**Meteorological Satellite Program, Defense**  
USE DMSP SATELLITES

**Method, Conjugate Gradient**  
USE CONJUGATE GRADIENT METHOD

**Method, Crank-Nicholson**  
USE CRANK-NICHOLSON METHOD

**Methods, Spectral**  
USE SPECTRAL METHODS

**Microchannel Arrays, Multi-Anode**  
USE MULTI-ANODE MICROCHANNEL ARRAYS

**Microgravity**  
USE REDUCED GRAVITY

**MICROGRAVITY APPLICATIONS**

## MICROMECHANICS

Milankovitch Theory  
USE CLIMATOLOGY

## MINIMAL SURFACES

Misfetets  
USE FIELD EFFECT TRANSISTORS

Mission, Magellan  
USE MAGELLAN MISSION

Mission, Rosat  
USE ROSAT MISSION

Mission, Ulysses  
USE ULYSSES MISSION

Mission 31-A, Space Shuttle  
USE SPACE SHUTTLE MISSION 31-A

Mission 31-B, Space Shuttle  
USE SPACE SHUTTLE MISSION 31-B

Mission 31-C, Space Shuttle  
USE SPACE SHUTTLE MISSION 31-C

Mission 31-D, Space Shuttle  
USE SPACE SHUTTLE MISSION 31-D

Mission 41-A, Space Shuttle  
USE SPACE SHUTTLE MISSION 41-A

Mission 41-B, Space Shuttle  
USE SPACE SHUTTLE MISSION 41-B

Mission 41-C, Space Shuttle  
USE SPACE SHUTTLE MISSION 41-C

Mission 41-D, Space Shuttle  
USE SPACE SHUTTLE MISSION 41-D

Mission 41-G, Space Shuttle  
USE SPACE SHUTTLE MISSION 41-G

Mission 51-A, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-A

Mission 51-B, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-B

Mission 51-C, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-C

Mission 51-D, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-D

Mission 51-E, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-E

Mission 51-F, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-F

Mission 51-G, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-G

Mission 51-H, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-H

Mission 51-I, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-I

Mission 51-J, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-J

Mission 51-L, Space Shuttle  
USE SPACE SHUTTLE MISSION 51-L

Missions, Space Shuttle  
USE SPACE SHUTTLE MISSIONS

Mixing Depth  
USE MIXING HEIGHT

## MIXING HEIGHT

## MOBILE COMMUNICATION SYSTEMS

Mode Coupling  
USE COUPLED MODES

Modeling, Continuum  
USE CONTINUUM MODELING

Models, Static  
USE STATIC MODELS

Modes, Ballooning  
USE BALLOONING MODES

Modes (Plasmas), Tearing  
USE TEARING MODES (PLASMAS)

## MODULARITY

Monophosphate, Cyclic Adenosine  
USE CYCLIC AMP

MOS (Japanese Spacecraft)  
USE JAPANESE SPACECRAFT

## MOTION SIMULATION

## MOZAMBIQUE

## MUCUS

## MULTI-ANODE MICROCHANNEL ARRAYS

## MULTIBEAM ANTENNAS

Multiple Access, Demand Assignment  
USE DEMAND ASSIGNMENT MULTIPLE ACCESS

## MULTISENSOR APPLICATIONS

Multitemporal Analysis  
USE TEMPORAL RESOLUTION

## MURCHISON METEORITE

## MUSHY ZONES

## N

## NARROWBAND

(NASA), Space Operations Center  
USE SPACE OPERATIONS CENTER (NASA)

Navigation System, Transit  
USE TRANSIT NAVIGATION SYSTEM

Nebulae, Reflection  
USE REFLECTION NEBULAE

Neighborhood, Origin Of Plasmas in Earth  
USE OPEN PROJECT

## NEUTRAL ATMOSPHERES

## NEW BRUNSWICK

## NEW YORK CITY (NY)

## NEWFOUNDLAND

Nicholson Method, Crank-  
USE CRANK-NICHOLSON METHOD

## NICKEL IRON BATTERIES

Nino, El  
USE EL NINO

Nitrides, Metal  
USE METAL NITRIDES

Nitrogen Fixation  
USE NITROGENATION

## NITROGENATION

## NITROUS ACID

NOAA E  
USE NOAA 8 SATELLITE

## NOAA 8 SATELLITE

Noise Interactions, Surface  
USE SURFACE NOISE INTERACTIONS

Nonrelativistic Electrons  
USE ELECTRONS

North Vietnam  
USE VIETNAM

## NORTHWEST TERRITORIES

## NOVA COMPUTERS

## NOVA SATELLITES

## NOVA SCOTIA

## NOWCASTING

## NUCLEAR MEDICINE

Nuclear Wastes  
USE RADIOACTIVE WASTES

Nuclei, Condensation  
USE CONDENSATION NUCLEI

Number, Blot  
USE BIOT NUMBER

Number, High Reynolds  
USE HIGH REYNOLDS NUMBER

Number, Low Reynolds  
USE LOW REYNOLDS NUMBER

## NUMERICAL DATA BASES

(NY), New York City  
USE NEW YORK CITY (NY)

## O

Observatory, Einstein  
USE HEAO 2

## OPEN PROJECT

Operations Center (NASA), Space  
USE SPACE OPERATIONS CENTER (NASA)

## OPHIUCHI CLOUDS

## OPTICAL BISTABILITY

## OPTICAL COMPUTERS

## OPTICAL DISKS

Optical Telescope, Solar  
USE SOLAR OPTICAL TELESCOPE

Oratory  
USE PUBLIC SPEAKING

## ORBITAL MANEUVERING VEHICLES

(Orbiter), Atlantis  
USE ATLANTIS (ORBITER)

(Orbiter), Challenger  
USE CHALLENGER (ORBITER)

(Orbiter), Columbia  
USE COLUMBIA (ORBITER)

(Orbiter), Discovery  
USE DISCOVERY (ORBITER)

Orbiter 099, Space Shuttle  
USE CHALLENGER (ORBITER)

Orbiter 103, Space Shuttle  
USE DISCOVERY (ORBITER)

Orbiter 104, Space Shuttle  
USE ATLANTIS (ORBITER)

## Origin Of Plasmas In Earth Neighborhood

Origin Of Plasmas In Earth Neighborhood  
USE OPEN PROJECT

### OSCILLATOR STRENGTHS

Oscillators, Voltage Controlled  
USE VOLTAGE CONTROLLED OSCILLATORS

## P

Parameter, Time Temperature  
USE TIME TEMPERATURE PARAMETER

### PARTICLE LADEN JETS

(Particle Physics), Flavor  
USE FLAVOR (PARTICLE PHYSICS)

Path Analysis, Gas  
USE GAS PATH ANALYSIS

### PAYLOAD TRANSFER

PBB  
USE POLYBROMINATED BIPHENYLS

Permeation Chromatography, Gel  
USE LIQUID CHROMATOGRAPHY

### PERSONAL COMPUTERS

Philosophers Problem, Dining  
USE DINING PHILOSOPHERS PROBLEM

Photoclinometry  
USE PHOTOGRAMMETRY

Photography, High Speed  
USE HIGH SPEED PHOTOGRAPHY

Photovoltaics, Spectro  
USE SPECTROPHOTOVOLTAICS

Physics), Flavor (Particle  
USE FLAVOR (PARTICLE PHYSICS)

Physiology, Gravitational  
USE GRAVITATIONAL PHYSIOLOGY

Pioneer 12 Space Probe  
USE PIONEER VENUS SPACECRAFT

Planetary Interactions, Solar  
USE SOLAR PLANETARY INTERACTIONS

### PLANETARY RINGS

Plants, Solar Thermal Electric Power  
USE SOLAR THERMAL ELECTRIC POWER PLANTS

### PLASMA ANTENNAS

### PLASMA BUBBLES

Plasmas In Earth Neighborhood, Origin Of  
USE OPEN PROJECT

(Plasmas), Tearing Modes  
USE TEARING MODES (PLASMAS)

Plus Solid Zones, Liquid  
USE MUSHY ZONES

### POLAR CUSPS

### POLARITONS

Pollution, Indoor Air  
USE INDOOR AIR POLLUTION

### POLYBROMINATED BIPHENYLS

### POSEIDON SATELLITE

Positioning, Satellite Doppler  
USE SATELLITE DOPPLER POSITIONING

Potential, Lennard-Jones  
USE LENNARD-JONES POTENTIAL

Potentials, Pseudo  
USE PSEUDOPOTENTIALS

### POWER FACTOR CONTROLLERS

### POWER LOSS

Power Plants, Solar Thermal Electric  
USE SOLAR THERMAL ELECTRIC POWER PLANTS

Power Supplies, Aircraft  
USE AIRCRAFT POWER SUPPLIES

PR  
USE PUERTO RICO

### PRE-MAIN SEQUENCE STARS

Precession, Vortex  
USE VORTEX PRECESSION

### PREPROCESSING

### PRINCE EDWARD ISLAND

### PRINCIPAL COMPONENTS ANALYSIS

Probe B, Gravity  
USE GRAVITY PROBE B

Probe, Pioneer 12 Space  
USE PIONEER VENUS SPACECRAFT

Problem, Dining Philosophers  
USE DINING PHILOSOPHERS PROBLEM

Proceedings  
USE CONFERENCES

Process, Fischer-Tropsch  
USE FISCHER-TROPSCH PROCESS

Processing, Concurrent  
USE CONCURRENT PROCESSING

Processing, Distributed  
USE DISTRIBUTED PROCESSING

Processing), Frames (Data  
USE FRAMES (DATA PROCESSING)

Program, ACEE  
USE ACEE PROGRAM

Program, Aircraft Energy Efficiency  
USE ACEE PROGRAM

Program, Brazilian Space  
USE BRAZILIAN SPACE PROGRAM

Program, DAST  
USE DAST PROGRAM

Program, Defense Meteorological Satellite  
USE DMSP SATELLITES

Program, Energy Efficiency Transport  
USE ACEE PROGRAM

Program, International Geosphere-Biosphere  
USE INTERNATIONAL GEOSPHERE-BIOSPHERE PROGRAM

Program, Swedish Space  
USE SWEDISH SPACE PROGRAM

Program, Swiss Space  
USE SWISS SPACE PROGRAM

(Programming Language), Ada  
USE ADA (PROGRAMMING LANGUAGE)

(Programming Language), APL  
USE APL (PROGRAMMING LANGUAGE)

Programming, Logic  
USE LOGIC PROGRAMMING

## NASA THESAURUS SUPPLEMENT (PART 2)

Project, Open  
USE OPEN PROJECT

Project, Vega  
USE VEGA PROJECT

Properties, Asymptotic  
USE ASYMPTOTIC PROPERTIES

### PROTOCOL (COMPUTERS)

### PSEUDOPOTENTIALS

### PUBLIC SPEAKING

### PULSE REPETITION RATE

Pumped Lasers, Solar-  
USE SOLAR-PUMPED LASERS

P78-2 Satellite  
USE SCATHA SATELLITE

## Q

### QUANTUM ELECTRONICS

### QUERY LANGUAGES

## R

Radar, Imaging  
USE IMAGING RADAR

Radar, Shuttle Imaging  
USE SHUTTLE IMAGING RADAR

### RADARSAT

Radiation Medicine  
USE NUCLEAR MEDICINE

### RADIOCARDIOGRAPHY

Ramjets, Integral Rocket  
USE INTEGRAL ROCKET RAMJETS

Ranging, Sound Fixing And  
USE SOUND FIXING AND RANGING

Rate, Bit Error  
USE BIT ERROR RATE

Rate, Pulse Repetition  
USE PULSE REPETITION RATE

Ratio, Temperature  
USE TEMPERATURE RATIO

Ratioing, Band  
USE BAND RATIOING

Ray Imaging Scope, Low Intensity X  
USE LIXISCOPES

Ray Timing Explorer, X  
USE X RAY TIMING EXPLORER

### RAYLEIGH-BENARD CONVECTION

Rays, Galactic Cosmic  
USE GALACTIC COSMIC RAYS

### REAGENTS

Rearward Facing Steps  
USE BACKWARD FACING STEPS

Receivers, Solar  
USE SOLAR COLLECTORS

### RECTANGULAR WAVEGUIDES

Rectifiers, Reverse Switching  
USE REVERSE SWITCHING RECTIFIERS

**RED DWARF STARS****REFLECTION NEBULAE****REFORESTATION**

**Region, Caribbean**  
USE CARIBBEAN REGION

**Relations, Human**  
USE HUMAN RELATIONS

**Relations, Interpersonal**  
USE HUMAN RELATIONS

**Repetition Rate, Pulse**  
USE PULSE REPETITION RATE

**Research Wings, Aeroelastic**  
USE AEROELASTIC RESEARCH WINGS

**RESIDUAL STRENGTH**

**Resonance, Baryon**  
USE BARYON RESONANCE

**Resonance, Ground**  
USE GROUND RESONANCE

**Resonance, Meson**  
USE MESON RESONANCE

**Retardants, Fire**  
USE FLAME RETARDANTS

**Retrievable Carrier, European**  
USE EURECA (ESA)

**REVERSE SWITCHING RECTIFIERS**

**Reynolds Number, High**  
USE HIGH REYNOLDS NUMBER

**Reynolds Number, Low**  
USE LOW REYNOLDS NUMBER

**Rings, Planetary**  
USE PLANETARY RINGS

**ROBOTICS**

**Rocket, Aries Sounding**  
USE ARIES SOUNDING ROCKET

**Rocket Ramjets, Integral**  
USE INTEGRAL ROCKET RAMJETS

**Roentgen Satellite**  
USE ROSAT MISSION

**ROMANIA****ROSAT MISSION****ROTARY ENGINES**

**Rotation, Carrington**  
USE SOLAR ROTATION

**ROTOR BODY INTERACTIONS**

**Rumania**  
USE ROMANIA

**S****SAND CASTING**

**Sat, L-**  
USE L-SAT

**Satellite, Cosmos 954**  
USE COSMOS 954 SATELLITE

**SATELLITE DOPPLER POSITIONING**

**Satellite, European Large Telecomm**  
USE L-SAT

**Satellite, Explorer 44**  
USE EXPLORER 44 SATELLITE

**Satellite, Explorer 46**  
USE EXPLORER 46 SATELLITE

**Satellite, Hipparcos**  
USE HIPPARCOS SATELLITE

**SATELLITE IMAGERY**

**Satellite, Magsat B**  
USE MAGSAT B SATELLITE

**Satellite, Meteoroid Technology**  
USE EXPLORER 46 SATELLITE

**Satellite, NOAA 8**  
USE NOAA 8 SATELLITE

**Satellite, Poseidon**  
USE POSEIDON SATELLITE

**Satellite Program, Defense Meteorological**  
USE DMSP SATELLITES

**Satellite, P78-2**  
USE SCATHA SATELLITE

**Satellite, Roentgen**  
USE ROSAT MISSION

**Satellite, Solrad 10**  
USE EXPLORER 44 SATELLITE

**Satellites, Anik**  
USE ANIK SATELLITES

**Satellites, Astronomical**  
USE ASTRONOMICAL SATELLITES

**Satellites, DMSP**  
USE DMSP SATELLITES

**Satellites, INSAT**  
USE INDIAN SPACECRAFT

**Satellites, Jupiter**  
USE JUPITER SATELLITES

**(Satellites), LES**  
USE LINCOLN EXPERIMENTAL SATELLITES

**Satellites, Marecs Maritime**  
USE MARECS MARITIME SATELLITES

**Satellites, Nova**  
USE NOVA SATELLITES

**Satellites, Spartan**  
USE SPARTAN SATELLITES

**Satellites, Uranus**  
USE URANUS SATELLITES

**Scale, Gray**  
USE GRAY SCALE

**Scale Integration, Very Large**  
USE VERY LARGE SCALE INTEGRATION

**SCANDINAVIA**

**Scarps**  
USE ESCARPMENTS

**Scope, Low Intensity X Ray Imaging**  
USE LIXISCOPIES

**Scotia, Nova**  
USE NOVA SCOTIA

**SDV**  
USE SHUTTLE DERIVED VEHICLES

**SEA SURFACE TEMPERATURE****SEASAT 1**

**(Season), Spring**  
USE SPRING (SEASON)

**Seismology, Heli**  
USE HELIOSEISMOLOGY

**Seismology, Solar**  
USE HELIOSEISMOLOGY

**Selective Coatings, Solar**  
USE SELECTIVE SURFACES

**SELECTIVE SURFACES****SELF SHADOWING**

**SEO (Indian Spacecraft)**  
USE INDIAN SPACECRAFT

**Sequence Stars, Pre-Main**  
USE PRE-MAIN SEQUENCE STARS

**SFAR**  
USE SOUND FIXING AND RANGING

**Shadowing, Self**  
USE SELF SHADOWING

**SHELL ANODES****SHIP TO SHORE COMMUNICATION**

**Shore Communication, Ship To**  
USE SHIP TO SHORE COMMUNICATION

**SHORT CIRCUIT CURRENTS****SHUTTLE DERIVED VEHICLES****SHUTTLE IMAGING RADAR**

**Shuttle Mission 31-A, Space**  
USE SPACE SHUTTLE MISSION 31-A

**Shuttle Mission 31-B, Space**  
USE SPACE SHUTTLE MISSION 31-B

**Shuttle Mission 31-C, Space**  
USE SPACE SHUTTLE MISSION 31-C

**Shuttle Mission 31-D, Space**  
USE SPACE SHUTTLE MISSION 31-D

**Shuttle Mission 41-A, Space**  
USE SPACE SHUTTLE MISSION 41-A

**Shuttle Mission 41-B, Space**  
USE SPACE SHUTTLE MISSION 41-B

**Shuttle Mission 41-C, Space**  
USE SPACE SHUTTLE MISSION 41-C

**Shuttle Mission 41-D, Space**  
USE SPACE SHUTTLE MISSION 41-D

**Shuttle Mission 41-G, Space**  
USE SPACE SHUTTLE MISSION 41-G

**Shuttle Mission 51-A, Space**  
USE SPACE SHUTTLE MISSION 51-A

**Shuttle Mission 51-B, Space**  
USE SPACE SHUTTLE MISSION 51-B

**Shuttle Mission 51-C, Space**  
USE SPACE SHUTTLE MISSION 51-C

**Shuttle Mission 51-D, Space**  
USE SPACE SHUTTLE MISSION 51-D

**Shuttle Mission 51-E, Space**  
USE SPACE SHUTTLE MISSION 51-E

**Shuttle Mission 51-F, Space**  
USE SPACE SHUTTLE MISSION 51-F

**Shuttle Mission 51-G, Space**  
USE SPACE SHUTTLE MISSION 51-G

**Shuttle Mission 51-H, Space**  
USE SPACE SHUTTLE MISSION 51-H

**Shuttle Mission 51-I, Space**  
USE SPACE SHUTTLE MISSION 51-I

## Shuttle Mission 51-J, Space

**Shuttle Mission 51-J, Space**  
USE SPACE SHUTTLE MISSION 51-J

**Shuttle Mission 51-L, Space**  
USE SPACE SHUTTLE MISSION 51-L

**Shuttle Missions, Space**  
USE SPACE SHUTTLE MISSIONS

**Shuttle Orbiter 099, Space**  
USE CHALLENGER (ORBITER)

**Shuttle Orbiter 103, Space**  
USE DISCOVERY (ORBITER)

**Shuttle Orbiter 104, Space**  
USE ATLANTIS (ORBITER)

**Signals, Audio**  
USE AUDIO SIGNALS

**Signals, Video**  
USE VIDEO SIGNALS

**Signatures, Infrared**  
USE INFRARED SIGNATURES

**Simulation, Data**  
USE DATA SIMULATION

**Simulation, Motion**  
USE MOTION SIMULATION

**SIR-A**  
USE SHUTTLE IMAGING RADAR

**SIR-B**  
USE SHUTTLE IMAGING RADAR

**Size, Grain**  
USE GRAIN SIZE

**SOBOLEV SPACE**

**SOFAR**  
USE SOUND FIXING AND RANGING

**SOFTWARE ENGINEERING**

**SOFTWARE TOOLS**

**SOLAR BACKSCATTER UV SPECTROMETER**

**Solar Dynamics**  
USE HELIOSEISMOLOGY

**Solar Lasers**  
USE SOLAR-PUMPED LASERS

**SOLAR OPTICAL TELESCOPE**

**SOLAR PLANETARY INTERACTIONS**

**Solar Receivers**  
USE SOLAR COLLECTORS

**Solar Seismology**  
USE HELIOSEISMOLOGY

**Solar Selective Coatings**  
USE SELECTIVE SURFACES

**SOLAR THERMAL ELECTRIC POWER PLANTS**

**SOLAR-PUMPED LASERS**

**Solid Interactions, Fluid-**  
USE FLUID-SOLID INTERACTIONS

**Solid Zones, Liquid Plus**  
USE MUSHY ZONES

**Solrad 10 Satellite**  
USE EXPLORER 44 SATELLITE

**SOLVOLYSIS**

**Sonic Fatigue**  
USE ACOUSTIC FATIGUE

**SORTIE SYSTEMS**

**SOT**  
USE SOLAR OPTICAL TELESCOPE

**SOUND FIXING AND RANGING**

**Sounding Rocket, Aries**  
USE ARIES SOUNDING ROCKET

**SPACE COMMERCIALIZATION**

**SPACE HABITATS**

**Space), Hazardous Material Disposal (In**  
USE HAZARDOUS MATERIAL DISPOSAL (IN SPACE)

**SPACE INFRARED TELESCOPE FACILITY**

**SPACE OPERATIONS CENTER (NASA)**

**Space Probe, Pioneer 12**  
USE PIONEER VENUS SPACECRAFT

**Space Program, Brazilian**  
USE BRAZILIAN SPACE PROGRAM

**Space Program, Swedish**  
USE SWEDISH SPACE PROGRAM

**Space Program, Swiss**  
USE SWISS SPACE PROGRAM

**SPACE SHUTTLE MISSION 31-A**

**SPACE SHUTTLE MISSION 31-B**

**SPACE SHUTTLE MISSION 31-C**

**SPACE SHUTTLE MISSION 31-D**

**SPACE SHUTTLE MISSION 41-A**

**SPACE SHUTTLE MISSION 41-B**

**SPACE SHUTTLE MISSION 41-C**

**SPACE SHUTTLE MISSION 41-D**

**SPACE SHUTTLE MISSION 41-G**

**SPACE SHUTTLE MISSION 51-A**

**SPACE SHUTTLE MISSION 51-B**

**SPACE SHUTTLE MISSION 51-C**

**SPACE SHUTTLE MISSION 51-D**

**SPACE SHUTTLE MISSION 51-E**

**SPACE SHUTTLE MISSION 51-F**

**SPACE SHUTTLE MISSION 51-G**

**SPACE SHUTTLE MISSION 51-H**

**SPACE SHUTTLE MISSION 51-I**

**SPACE SHUTTLE MISSION 51-J**

**SPACE SHUTTLE MISSION 51-L**

**SPACE SHUTTLE MISSIONS**

**Space Shuttle Orbiter 099**  
USE CHALLENGER (ORBITER)

**Space Shuttle Orbiter 101**  
USE ENTERPRISE (ORBITER)

**Space Shuttle Orbiter 102**  
USE COLUMBIA (ORBITER)

**Space Shuttle Orbiter 103**  
USE DISCOVERY (ORBITER)

**Space Shuttle Orbiter 104**  
USE ATLANTIS (ORBITER)

## NASA THESAURUS SUPPLEMENT (PART 2)

**Space, Sobolev**  
USE SOBOLEV SPACE

**Space Telescope**  
USE HUBBLE SPACE TELESCOPE

**Space Telescope, Hubble**  
USE HUBBLE SPACE TELESCOPE

**SPACEBORNE LASERS**

**Spacecraft, Canadian**  
USE CANADIAN SPACECRAFT

**Spacecraft, Commercial**  
USE COMMERCIAL SPACECRAFT

**SPACECRAFT EQUIPMENT**

**Spacecraft), IRS (Indian**  
USE INDIAN SPACECRAFT

**Spacecraft, Japanese**  
USE JAPANESE SPACECRAFT

**SPACECRAFT MAINTENANCE**

**Spacecraft, Mariner Mark 2**  
USE MARINER MARK 2 SPACECRAFT

**Spacecraft, Mars 7**  
USE MARS 7 SPACECRAFT

**Spacecraft), MOS (Japanese**  
USE JAPANESE SPACECRAFT

**Spacecraft), SEO (Indian**  
USE INDIAN SPACECRAFT

**SPARTAN SATELLITES**

**Speaking, Public**  
USE PUBLIC SPEAKING

**SPECTRAL METHODS**

**Spectrometer, Solar Backscatter UV**  
USE SOLAR BACKSCATTER UV SPECTROMETER

**Spectrometers, Ion**  
USE MASS SPECTROMETERS

**SPECTROPHOTOVOLTAICS**

**Spectroscopic Explorer, Far UV**  
USE FAR UV SPECTROSCOPIC EXPLORER

**Speeches**  
USE LECTURES

**Speed Photography, High**  
USE HIGH SPEED PHOTOGRAPHY

**SPIN TEMPERATURE**

**SPRAY INGESTION**

**SPRING (SEASON)**

**Stage, Multi**  
USE MULTIVIBRATORS

**Stars, Double**  
USE BINARY STARS

**Stars, Pre-Main Sequence**  
USE PRE-MAIN SEQUENCE STARS

**Stars, Red Dwarf**  
USE RED DWARF STARS

**Stars, Symbiotic**  
USE SYMBIOTIC STARS

**Start, Air**  
USE AIR START

**States, United**  
USE UNITED STATES



## STATIC CHARACTERISTICS

## STATIC MODELS

## STELLAR ACTIVITY

## STELLAR COLOR

## STELLAR COMPOSITION

## STELLAR CORES

## Steps, Backward Facing

USE BACKWARD FACING STEPS

## Steps, Rearward Facing

USE BACKWARD FACING STEPS

## STEREOPHONICS

## Storage, Magnetic Energy

USE MAGNETIC ENERGY STORAGE

## STRAIN MEASUREMENT

## STRANGE ATTRACTORS

## STRATEGIC MATERIALS

## Strength, Residual

USE RESIDUAL STRENGTH

## Strengths, Oscillator

USE OSCILLATOR STRENGTHS

## Struct Test, Drones For Aerodynamic And

USE DAST PROGRAM

## Structures, Data

USE DATA STRUCTURES

## Structures, Telescoping

USE FOLDING STRUCTURES

## STS-13

USE SPACE SHUTTLE MISSION 41-C

## STS-14

USE SPACE SHUTTLE MISSION 41-D

## STS-17

USE SPACE SHUTTLE MISSION 41-G

## STS-19

USE SPACE SHUTTLE MISSION 51-A

## STS-20

USE SPACE SHUTTLE MISSION 51-C

## STS-21

USE SPACE SHUTTLE MISSION 51-B

## STS-22

USE SPACE SHUTTLE MISSION 51-E

## STS-23

USE SPACE SHUTTLE MISSION 51-D

## STS-24

USE SPACE SHUTTLE MISSION 51-F

## STS-25

USE SPACE SHUTTLE MISSION 51-G

## STS-26

USE SPACE SHUTTLE MISSION 51-L

## STS-27

USE SPACE SHUTTLE MISSION 51-I

## STS-28

USE SPACE SHUTTLE MISSION 51-J

## STS-31

USE SPACE SHUTTLE MISSION 51-H

## SULFIDATION

## SUPERCOMPUTERS

## SUPERCRITICAL AIRFOILS

## SUPERLATTICES

## Supplies, Aircraft Power

USE AIRCRAFT POWER SUPPLIES

## SURFACE NOISE INTERACTIONS

## Surface Temperature, Sea

USE SEA SURFACE TEMPERATURE

## Surfaces, Minimal

USE MINIMAL SURFACES

## Surfaces, Selective

USE SELECTIVE SURFACES

## Susceptibility, Magnetic

USE MAGNETIC PERMEABILITY

## SWATH WIDTH

## SWEDISH SPACE PROGRAM

## SWISS SPACE PROGRAM

## Switching Rectifiers, Reverse

USE REVERSE SWITCHING RECTIFIERS

## SYMBIOTIC STARS

## SYNCHROPHASING

## System, Teleoperator Maneuvering

USE TELEOPERATORS

## System, Transit Navigation

USE TRANSIT NAVIGATION SYSTEM

## Systems Design, Control

USE CONTROL SYSTEMS DESIGN

## Systems, Dynamical

USE DYNAMICAL SYSTEMS

## Systems, Embedded Computer

USE EMBEDDED COMPUTER SYSTEMS

## Systems, Expert

USE EXPERT SYSTEMS

## Systems, Flight Management

USE FLIGHT MANAGEMENT SYSTEMS

## Systems, Geographic Information

USE GEOGRAPHIC INFORMATION SYSTEMS

## Systems, Integrated Library

USE INTEGRATED LIBRARY SYSTEMS

## Systems, Mobile Communication

USE MOBILE COMMUNICATION SYSTEMS

## Systems, Sortie

USE SORTIE SYSTEMS

## Systems, Virtual Memory

USE VIRTUAL MEMORY SYSTEMS

## T

## TAGN

## TAIWAN

## Takeoff-Landing Aircraft, Vertical Attitude

USE VATOL AIRCRAFT

## Tapes, Heat

USE HEAT TAPES

## TATB

## Taylor-Goertler Instability

USE GOERTLER INSTABILITY

## TEARING MODES (PLASMAS)

## Technology Satellite, Meteoroid

USE EXPLORER 46 SATELLITE

## Telecomm Satellite, European Large

USE L-SAT

## Teleoperator Maneuvering System

USE TELEOPERATORS

## Telescope Facility, Space Infrared

USE SPACE INFRARED TELESCOPE FACILITY

## Telescope, Hubble Space

USE HUBBLE SPACE TELESCOPE

## Telescope, Solar Optical

USE SOLAR OPTICAL TELESCOPE

## Telescope, Space

USE HUBBLE SPACE TELESCOPE

## Telescoping Structures

USE FOLDING STRUCTURES

## Temperature Parameter, Time

USE TIME TEMPERATURE PARAMETER

## TEMPERATURE RATIO

## Temperature, Sea Surface

USE SEA SURFACE TEMPERATURE

## Temperature, Spin

USE SPIN TEMPERATURE

## Temporal, Multi

USE MULTIVIBRATORS

## Territories, Northwest

USE NORTHWEST TERRITORIES

## Territory, Yukon

USE YUKON TERRITORY

## Test, Bruceton

USE STATISTICAL TESTS

## Test, Drones For Aerodynamic And Struct

USE DAST PROGRAM

## Tests, Burst

USE BURST TESTS

## Theory, Milankovitch

USE CLIMATOLOGY

## Theory, Unified Field

USE UNIFIED FIELD THEORY

## THERMAL ANALYSIS

## Thermal Electric Power Plants, Solar

USE SOLAR THERMAL ELECTRIC POWER PLANTS

## Thermal Gravimetry

USE THERMOGRAVIMETRY

## THERMOGRAPHY

## THRUSTORS

## TIME TEMPERATURE PARAMETER

## Timing Explorer, X Ray

USE X RAY TIMING EXPLORER

## TIP VANES

## Tips, Crack

USE CRACK TIPS

## Tools, Software

USE SOFTWARE TOOLS

## TOPPING CYCLE ENGINES

## Towers, Whirl

USE WHIRL TOWERS

**(Trademark), Borazon**

**(Trademark), Borazon**  
USE BORON NITRIDES

**TRANSATMOSPHERIC VEHICLES**

**Transducers, Interdigital**  
USE INTERDIGITAL TRANSDUCERS

**Transfer, Payload**  
USE PAYLOAD TRANSFER

**TRANSIT NAVIGATION SYSTEM**

**Transit Vehicles, Automated**  
USE AUTOMATED TRANSIT VEHICLES

**Transport Program, Energy Efficiency**  
USE ACEE PROGRAM

**Triaminoguanidinenitrate**  
USE TAGN

**Triaminotrinitrobenzene**  
USE TATB

**TRIBOLUMINESCENCE**

**Tropsch Process, Fischer-**  
USE FISCHER-TROPSCH PROCESS

**TYROSINE**

**U**

**ULTRALIGHT AIRCRAFT**

**ULYSSES MISSION**

**UNIFIED FIELD THEORY**

**UNITED STATES**

**Units, Agrophysical**  
USE AGROPHYSICAL UNITS

**Units, Manned Maneuvering**  
USE MANNED MANEUVERING UNITS

**Upper Volta**  
USE BURKINA

**URANUS SATELLITES**

**US-2A Aircraft**  
USE S-2 AIRCRAFT

**UV Spectrometer, Solar Backscatter**  
USE SOLAR BACKSCATTER UV  
SPECTROMETER

**UV Spectroscopic Explorer, Far**  
USE FAR UV SPECTROSCOPIC EXPLORER

**V**

**Valsala Frequency, Brunt-**  
USE BRUNT-VAISALA FREQUENCY

**Valves, Light**  
USE LIGHT VALVES

**Vanes, Tip**  
USE TIP VANES

**Variables, Cataclysmic**  
USE CATAclysmic VARIABLES

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**VCO**  
USE VOLTAGE CONTROLLED OSCILLATORS

**VEGA PROJECT**

**VEGETATIVE INDEX**

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**Vehicles, Orbital Maneuvering**  
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**Vehicles, Transatmospheric**  
USE TRANSATMOSPHERIC VEHICLES

**Ventricles, Cerebral**  
USE CEREBRAL VENTRICLES

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USE VATOL AIRCRAFT

**VERY LARGE SCALE INTEGRATION**

**VIDEO SIGNALS**

**VIRIAL COEFFICIENTS**

**VIRTUAL MEMORY SYSTEMS**

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USE VERY LARGE SCALE INTEGRATION

**VOLTAGE CONTROLLED OSCILLATORS**

**VORTEX PRECESSION**

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**W**  
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**WASTE HEAT**

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USE RADIOACTIVE WASTES

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USE CIRCULAR WAVEGUIDES

**Waveguides, Rectangular**  
USE RECTANGULAR WAVEGUIDES

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**WESTERN HEMISPHERE**

**WHIRL TOWERS**

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USE SWATH WIDTH

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USE AEROELASTIC RESEARCH WINGS

**Wings, Cranked**  
USE SWEPT WINGS

**Wolfram**  
USE TUNGSTEN

**X**

**X Ray Imaging Scope, Low Intensity**  
USE LIXISCOPES

**X RAY TIMING EXPLORER**

**XENON CHLORIDE LASERS**

**Y**

**York City (NY), New**  
USE NEW YORK CITY (NY)

**NASA THESAURUS SUPPLEMENT (PART 2)**

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**Z**

**Zones, Float**  
USE FLOAT ZONES

**Zones, Liquid Plus Solid**  
USE MUSHY ZONES

**Zones, Mushy**  
USE MUSHY ZONES

**NUMERICAL  
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USE SCATHA SATELLITE
- 2 Spacecraft, Mariner Mark  
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- 2A Aircraft, US-  
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- 4, LANDSAT  
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**31-C, Space Shuttle Mission**  
USE SPACE SHUTTLE MISSION 31-C

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**41-C, Space Shuttle Mission**  
USE SPACE SHUTTLE MISSION 41-C

**41-D, Space Shuttle Mission**  
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**46 Satellite, Explorer**  
USE EXPLORER 46 SATELLITE

**51-A, Space Shuttle Mission**  
USE SPACE SHUTTLE MISSION 51-A

**51-B, Space Shuttle Mission**  
USE SPACE SHUTTLE MISSION 51-B

**51-C, Space Shuttle Mission**  
USE SPACE SHUTTLE MISSION 51-C

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USE SPACE SHUTTLE MISSION 51-H

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USE SPACE SHUTTLE MISSION 51-I

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USE SPACE SHUTTLE MISSION 51-J

**51-L, Space Shuttle Mission**  
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**310 Aircraft, A-**  
USE A-310 AIRCRAFT

**320 Aircraft, A-**  
USE A-320 AIRCRAFT

**954 Satellite, Cosmos**  
USE COSMOS 954 SATELLITE

# NASA THESAURUS SUPPLEMENT

## PART 3 DELETIONS

**AEROMAGNETISM**  
Use **GEOMAGNETISM**  
Deleted, term now postable

**BARYON RESONANCES**  
Transferred to **BARYON RESONANCE**

**BIOCLIMATOLOGY**  
Transferred to **BIOMETEOROLOGY**

**CAMBODIA**  
Transferred to **KAMPUCHEA**

**CERCOCEBUS MONKEYS**  
Transferred to **MONKEYS**

**CHINA (Array term)**  
Deleted

**CHINA (MAINLAND)**  
Transferred to **CHINA**

**CHINA (TAIWAN)**  
Transferred to **TAIWAN**

**COMMONALITY (EQUIPMENT)**  
Transferred to **COMMONALITY**

**COMPUTERIZED DESIGN**  
Transferred to **COMPUTER AIDED DESIGN**

**CONDENSERS (LIQUIFIERS)**  
Transferred to **CONDENSERS (LIQUEFIERS)**

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**COSMOS 4 SATELLITE**  
**COSMOS 7 SATELLITE**  
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**COSMOS 1134 SATELLITE**  
**COSMOS 1135 SATELLITE**  
**COSMOS 1136 SATELLITE**  
**COSMOS 1137 SATELLITE**  
Deleted

**DAHOMY**  
Transferred to **BENIN**

**DIKES**  
Use **ROCK INTRUSIONS**  
Deleted

**DIFFERENTIAL ANALYZERS**  
Use **ANALOG COMPUTERS**  
Deleted, term now postable

**DIFFERENTIAL THERMAL ANALYSIS**  
Transferred to **THERMAL ANALYSIS**

**DIRECTORIES**  
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Deleted

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**DISCOVERER 6 SATELLITE**  
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**DISCOVERER 17 SATELLITE**  
**DISCOVERER 18 SATELLITE**  
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**DISCOVERER 30 SATELLITE**  
**DISCOVERER 31 SATELLITE**  
**DISCOVERER 32 SATELLITE**  
**DISCOVERER 36 SATELLITE**  
**DISCOVERER 38 SATELLITE**  
Deleted

**EXERCISE (PHYSIOLOGY)**  
Use **PHYSICAL EXERCISE**  
Deleted

**EXPERIMENTAL DESIGN**  
Transferred to **EXPERIMENT DESIGN**

**EXPLORER 42 SATELLITE**  
Transferred to **UHURU SATELLITE**

**FLUORPHLOGOPITE**  
Transferred to **FLUOROPHLOGOPITE**

**GIOTTO MISSION**  
Use **EUROPEAN SPACE PROGRAM**  
**HALLEY'S COMET**  
Deleted, term now postable

**GREEN FUNCTION**  
Transferred to **GREEN'S FUNCTIONS**

**IMAGING RADAR**  
Use **SYNTHETIC APERTURE RADAR**  
Deleted, term now postable

**INFORMATION TRANSFER**  
Use **COMMUNICATING**  
Deleted, term now postable

**INTELSAT 1 SATELLITE**  
**INTELSAT 2 SATELLITE**  
**INTELSAT 3 SATELLITE**  
**INTELSAT 4 SATELLITE**  
**INTELSAT 5 SATELLITE**  
**INTELSAT 5B SATELLITE**  
**INTELSAT 5C SATELLITE**  
**INTELSAT 5F SATELLITE**  
Transferred to **INTELSAT SATELLITES**

**INTERNATIONAL SOLAR POLAR MISSION**  
Transferred to **ULYSSES MISSION**

**ISEE A**  
Use **INTERNATIONAL SUN EARTH EXPLORER 1**  
Deleted

**ISEE B**  
Use **INTERNATIONAL SUN EARTH EXPLORER 2**  
Deleted

**ISEE C**  
Use **INTERNATIONAL SUN EARTH EXPLORER 3**  
Deleted

**ISEE 1**  
Use **INTERNATIONAL SUN EARTH EXPLORER 1**  
Deleted

**ISEE 2**  
Use **INTERNATIONAL SUN EARTH EXPLORER 2**  
Deleted

**ISEE 3**  
Use **INTERNATIONAL SUN EARTH EXPLORER 3**  
Deleted

**K-MESONS**  
Transferred to **KAONS**

**LANDSAT C**  
Use **LANDSAT 3**  
Deleted

**LANDSAT D**  
Transferred to **LANDSAT 4**

**LARGE SPACE TELESCOPE**  
Transferred to HUBBLE SPACE TELESCOPE

**LES**  
Use LINCOLN EXPERIMENTAL SATELLITE  
Changed to LES (SATELLITES)  
Use LINCOLN EXPERIMENTAL SATELLITES

**LOW INTENSITY X-RAY IMAGING SCOPE**  
Transferred to LOW INTENSITY X RAY IMAGING SCOPE

**LOWER BODY NEGATIVE PRESSURE (LBNP)**  
Use ACCELERATION STRESSES (PHYSIOLOGY)  
Deleted

**LUNAR ATMOSPHERES**  
Transferred to LUNAR ATMOSPHERE

**LYRAE CONSTELLATION**  
Transferred to LYRA CONSTELLATION

**MANGABFYS**  
Transferred to MONKEYS

**MESON RESONANCES**  
Transferred to MESON RESONANCE

**MUCOUS**  
Transferred to MUCUS

**NIMBUS F**  
Transferred to NIMBUS 6

**NIMBUS G**  
Transferred to NIMBUS 7

**NORTH VIETNAM**  
Transferred to NOVA SATELLITES

**NOVA SATELLITE**  
Transferred to NOVA SATELLITES

**OFT 5**  
Use SPACE TRANSPORTATION SYSTEM 5 FLIGHT  
Deleted

**OFT 6**  
Use SPACE TRANSPORTATION SYSTEM 6 FLIGHT  
Deleted

**OKHOTSK SEA**  
Transferred to SEA OF OKHOTSK

**PAYLOAD TRANSFER (STS)**  
Transferred to PAYLOAD TRANSFER

**PHASED LOCKED SYSTEMS**  
Transferred to PHASE LOCKED SYSTEMS

**PROCEEDINGS**  
Transferred to CONFERENCES

**RADIATION MEDICINE**  
Transferred to NUCLEAR MEDICINE

**RCA SATCOM C**  
RCA SATCOM 1  
RCA SATCOM 2  
Transferred to RCA SATCOM SATELLITES

**RECTANGULAR GUIDES**  
Transferred to RECTANGULAR WAVEGUIDES

**ROMANIA**  
Use RUMANIA  
Deleted

**RUMANIA**  
Transferred to ROMANIA

**SEASAT-A SATELLITE**  
Transferred to SEASAT 1

**SORTIE CAN**  
Use SPACELAB  
Replaced by Use SORTIE SYSTEMS

**SORTIE LAB**  
USE SPACELAB  
Replaced by Use SORTIE SYSTEMS

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Transferred to appropriate SPACE  
SHUTTLE MISSION numbered terms

**TEARING MODE (PLASMAS)**  
Transferred to TEARING MODES (PLASMAS)

**THRUSTORS**  
Use ROCKET ENGINES  
Deleted, term now postable

**TIROS N SATELLITES**  
Transferred to TIROS N SERIES SATELLITES

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TRANSIT 1B SATELLITE  
TRANSIT 2A SATELLITE  
TRANSIT 3B SATELLITE  
TRANSIT 4A SATELLITE  
TRANSIT 4B SATELLITE  
TRANSIT 5A SATELLITE  
Transferred to TRANSIT SATELLITES

**UNITED ARAB REPUBLIC**  
Deleted

**UNITED STATES OF AMERICA**  
Transferred to UNITED STATES

**UPPER VOLTA**  
Transferred to BURKINA

**VERTICAL ATTITUDE TAKEOFF-LANDING AIRCRAFT**  
Use VOTAL AIRCRAFT  
Changed to VERTICAL ATTITUDE TAKEOFF-  
LANDING AIRCRAFT  
Use VATOL AIRCRAFT

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